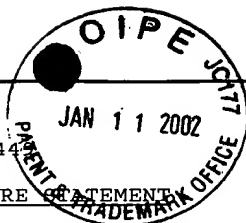


FORM PTO-144

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
1744.0260001APPLICATION NO.  
09/476,093APPLICANT  
Sorrells et al.FILING DATE  
January 3, 2000GROUP  
2631

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| DXN              | AA1 | 2,057,613       | 10/1936 | Gardner           | 250   | 8         |             |
| DXN              | AB1 | 2,241,078       | 05/1941 | Vreeland          | 179   | 15        |             |
| DXN              | AC1 | 2,270,385       | 01/1942 | Skillman          | 179   | 15        |             |
| DXN              | AD1 | 2,283,575       | 05/1942 | Roberts           | 250   | 6         |             |
| DXN              | AE1 | 2,358,152       | 09/1944 | Earp              | 179   | 171.5     |             |
| DXN              | AF1 | 2,410,350       | 10/1946 | Labin et al.      | 179   | 15        |             |
| DXN              | AG1 | 2,451,430       | 10/1948 | Barone            | 250   | 8         |             |
| DXN              | AH1 | 2,462,069       | 02/1949 | Chatterjea et al. | 250   | 17        |             |
| DXN              | AI1 | 2,462,181       | 02/1949 | Grosselfinger     | 250   | 17        |             |

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| DXN              | AJ1 | DE 42 37 692 C1 | 03/1994 | DE      | H04B  | 1/26      | No          |
| DXN              | AK1 | EP 0 035 166 A1 | 09/1981 | EP      | H04B  | 1/26      | No          |
| DXN              | AL1 | EP 0 193 899 B1 | 06/1990 | EP      | G01S  | 7/52      | N/A         |
| DXN              | AM1 | EP 0 380 351 A2 | 08/1990 | EP      | H03H  | 17/04     | N/A         |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

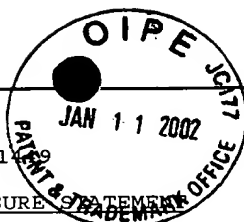
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| DXN | AN | 1 | Aghvami, H. et al., "Land Mobile Satellites Using the Highly Elliptic Orbits- The UK T-SAT Mobile Payload," Fourth International Conference on Satellite Systems for Mobile Communications and Navigation, IEE, pp. 147-153 (October 17-19, 1988).       |  |  |  |  |
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| DXN | AP | 1 | Al-Ahmad, H.A.M. et al., "Doppler Frequency Correction for a Non-Geostationary Communications Satellite. Techniques for CERS and T-SAT," Electronics Division Colloquium on Low Noise Oscillators and Synthesizers, IEE, pp. 4/1-4/5 (January 23, 1986). |  |  |  |  |
| DXN | AQ | 1 | Ali, I. et al., "Doppler Characterization for LEO Satellites," IEEE Transactions on Communications, IEEE, Vol. 46, No. 3, pp. 309-313 (March 1998).  |  |  |  |  |
| DXN | AR | 1 | Allan, D.W., "Statistics of Atomic Frequency Standards," Proceedings Of The IEEE Special Issue on Frequency Stability, IEEE, pp. 221-230 (February 1966).  |  |  |  |  |

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DATE CONSIDERED  
8-4-03

5/5/2003

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FORM PTO-1449

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## U.S. PATENT DOCUMENTS

| EXAMINER INITIAL |     | DOCUMENT NUMBER | DATE    | NAME              | CLASS | SUB-CLASS | FILING DATE |
|------------------|-----|-----------------|---------|-------------------|-------|-----------|-------------|
| <i>DPN</i>       | AA2 | 2,472,798       | 06/1949 | Fredendall        | 178   | 44        |             |
| <i>DPN</i>       | AB2 | 2,497,859       | 02/1950 | Boughtwood et al. | 250   | 8         |             |
| <i>DPN</i>       | AC2 | 2,499,279       | 02/1950 | Peterson          | 332   | 41        |             |
| <i>DPN</i>       | AD2 | 2,802,208       | 08/1957 | Hobbs             | 343   | 176       |             |
| <i>DPN</i>       | AE2 | 2,985,875       | 05/1961 | Grisdale et al.   | 343   | 100       |             |
| <i>DPN</i>       | AF2 | 3,023,309       | 02/1962 | Foulkes           | 250   | 17        |             |
| <i>DPN</i>       | AG2 | 3,069,679       | 12/1962 | Sweeney et al.    | 343   | 200       |             |
| <i>DPN</i>       | AH2 | 3,104,393       | 09/1963 | Vogelman          | 343   | 200       |             |
| <i>DPN</i>       | AI2 | 3,114,106       | 12/1963 | McManus           | 325   | 56        |             |

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|------------------|-----|-----------------|---------|---------|-------|-----------|-------------|
| <i>DPN</i>       | AJ2 | EP 0 380 351 A3 | 02/1991 | EP      | H03H  | 17/04     | N/A         |
| <i>DPN</i>       | AK2 | EP 0 411 840 A2 | 02/1991 | EP      | G01R  | 33/36     | N/A         |
| <i>DPN</i>       | AL2 | EP 0 411 840 A3 | 07/1991 | EP      | G01R  | 33/36     | N/A         |
| <i>DPN</i>       | AM2 | EP 0 411 840 B1 | 10/1995 | EP      | G01R  | 33/36     | N/A         |

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| <i>DPN</i> | AO | 2 | Allstot, D.J. and Black Jr. W.C., "Technological Design Considerations for Monolithic MOS Switched-Capacitor Filtering Systems," <i>Proceedings of the IEEE</i> , IEEE, Vol. 71, No. 8, pp. 967-986 (August 1983).  |
| <i>DPN</i> | AP | 2 | Alouini, M. et al., "Channel Characterization and Modeling for Ka-Band Very Small Aperture Terminals," <i>Proceedings Of the IEEE</i> , IEEE, Vol. 85, No. 6, pp. 981-997 (June 1997).  |
| <i>DPN</i> | AQ | 2 | Andreyev, G.A. and Ogarev, S.A., "Phase Distortions of Keyed Millimeter-Wave Signals in the Case of Propagation in a Turbulent Atmosphere," <i>Telecommunications and Radio Engineering</i> , Scripta Technica, Vol. 43, No. 12, pp. 87-90 (December 1988). |
| <i>DPN</i> | AR | 2 | Antonetti, A. et al., "Optoelectronic Sampling in the Picosecond Range," <i>Optics Communications</i> , North-Holland Publishing Company, Vol. 21, No. 2, pp. 211-214 (May 1977).   |

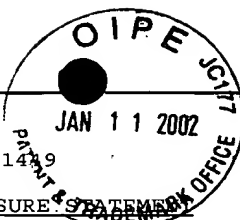
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| EXAMINER INITIAL |     | DOCUMENT NUMBER | DATE    | NAME        | CLASS | SUB-CLASS | FILING DATE |
|------------------|-----|-----------------|---------|-------------|-------|-----------|-------------|
| <i>DXN</i>       | AA3 | 3,118,117       | 01/1964 | King et al. | 332   | 22        |             |
| <i>DXN</i>       | AB3 | 3,226,643       | 12/1965 | McNair      | 325   | 40        |             |
| <i>DXN</i>       | AC3 | 3,258,694       | 06/1966 | Shepherd    | 325   | 145       |             |
| <i>DXN</i>       | AD3 | 3,383,598       | 05/1968 | Sanders     | 325   | 163       |             |
| <i>DXN</i>       | AF3 | 3,384,822       | 05/1968 | Miyagi      | 325   | 30        |             |
| <i>DXN</i>       | AF3 | 3,454,718       | 07/1969 | Perreault   | 178   | 66        |             |
| <i>DXN</i>       | AG3 | 3,523,291       | 08/1970 | Pierret     | 340   | 347       |             |
| <i>DXN</i>       | AH3 | 3,548,342       | 12/1970 | Maxey       | 332   | 9         |             |
| <i>DXN</i>       | AI3 | 3,555,428       | 01/1971 | Perreault   | 325   | 320       |             |

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|------------------|-----|-----------------|---------|---------|-------|-----------|-------------|
| <i>DXN</i>       | AJ3 | EP 0 423 718 A2 | 04/1991 | EP      | H04N  | 7/01      | N/A         |
| <i>DXN</i>       | AK3 | EP 0 423 718 A3 | 08/1992 | EP      | H04N  | 7/01      | N/A         |
| <i>DXN</i>       | AL3 | EP 0 486 095 A1 | 05/1992 | EP      | H03D  | 3/00      | N/A         |
| <i>DXN</i>       | AM3 | EP 0 486 095 B1 | 02/1997 | EP      | H03D  | 3/00      | N/A         |

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| <i>DXN</i> | AN | 3 | Austin, J. et al., "Doppler Correction of the Telecommunication Payload Oscillators in the UK T-SAT," 18 <sup>th</sup> European Microwave Conference, Microwave Exhibitions and Publishers Ltd., pp. 851-857 (September 12 - 15, 1988). |
| <i>DXN</i> | AO | 3 | Auston, D.H., "Picosecond optoelectronic switching and gating in silicon," <i>Applied Physics Letters</i> , American Institute of Physics, Vol. 26, No. 3, pp. 101-103 (February 1, 1975).  |
| <i>DXN</i> | AP | 3 | Baher, H., "Transfer Functions for Switched-Capacitor and Wave Digital Filters," <i>IEEE Transactions on Circuits and Systems</i> , IEEE Circuits and Systems Society, Vol. CAS-33, No. 11, pp. 1138-1142 (November 1986).              |
| <i>DXN</i> | AQ | 3 | Baines, R., "The DSP Bottleneck," <i>IEEE Communications Magazine</i> , IEEE Communications Society, pp. 46-54 (May 1995).  |
| <i>DXN</i> | AR | 3 | Banjo, O.P. and Vilar, E., "Binary Error Probabilities on Earth-Space Links Subject to Scintillation Fading," <i>Electronics Letters</i> , IEE, Vol. 21, No. 7, pp. 296-297 (March 28, 1985).   |

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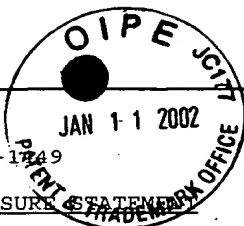
C. CHOW

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FORM PTO-1749

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| EXAMINER INITIAL |     | DOCUMENT NUMBER | DATE    | NAME          | CLASS | SUB-CLASS | FILING DATE |
|------------------|-----|-----------------|---------|---------------|-------|-----------|-------------|
| <i>DXN</i>       | AA4 | 3,617,892       | 11/1971 | Hawley et al. | 325   | 145       | ✓           |
| <i>DXN</i>       | AB4 | 3,621,402       | 11/1971 | Gardner       | 328   | 37        | ✓           |
| <i>DXN</i>       | AC4 | 3,623,160       | 11/1971 | Giles et al.  | 340   | 347 DA    | ✓           |
| <i>DXN</i>       | AD4 | 3,626,417       | 12/1971 | Gilbert       | 343   | 203       | ✓           |
| <i>DXN</i>       | AE4 | 3,629,696       | 12/1971 | Bartelink     | 324   | 57 R      | ✓           |
| <i>DXN</i>       | AF4 | 3,662,268       | 05/1972 | Gans et al.   | 325   | 56        | ✓           |
| <i>DXN</i>       | AG4 | 3,689,841       | 09/1972 | Bello et al.  | 325   | 39        | ✓           |
| <i>DXN</i>       | AH4 | 3,714,577       | 01/1973 | Hayes         | 325   | 145       | ✓           |
| <i>DXN</i>       | AI4 | 3,717,844       | 02/1973 | Barret et al. | 340   | 5 R       | ✓           |

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| EXAMINER INITIAL |     | DOCUMENT NUMBER | DATE    | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|-----|-----------------|---------|---------|-------|-----------|-------------|
| <i>DXN</i>       | AJ4 | EP 0 512 748 A2 | 11/1992 | EP      | H04N  | 9/64      | N/A         |
| <i>DXN</i>       | AK4 | EP 0 512 748 A3 | 07/1993 | EP      | H04N  | 9/64      | N/A         |
| <i>DXN</i>       | AL4 | EP 0 512 748 B1 | 11/1998 | EP      | H04N  | 9/64      | N/A         |
| <i>DXN</i>       | AM4 | EP 0 548 542 A1 | 06/1993 | EP      | H03B  | 19/14     | N/A         |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|            |    |   |   |
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| <i>DXN</i> | AN | 4 | Banjo, O.P. and Vilar, E., "The Dependence of Slant Path Amplitude Scintillations on Various Meteorological Parameters," <i>Fifth International Conference on Antennas and Propagation (ICAP 87) Part 2: Propagation</i> , IEE, pp. 277-280 (March 30 - April 2, 1987).           |
| <i>DXN</i> | AO | 4 | Banjo, O.P. and Vilar, E. "Measurement and Modeling of Amplitude Scintillations on Low-Elevation Earth-Space Paths and Impact on Communication Systems," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. COM-34, No. 8, pp. 774-780 (August 1986). |
| <i>DXN</i> | AP | 4 | Banjo, O.P. et al., "Tropospheric Amplitude Spectra Due to Absorption and Scattering in Earth-Space Paths," <i>Fourth International Conference on Antennas and Propagation (ICAP 85)</i> , IEE, pp. 77-82 (April 16-19, 1985).  |
| <i>DXN</i> | AQ | 4 | Basili, P. et al., "Case Study of Intense Scintillation Events on the OTS Path," <i>IEEE Transactions on Antennas and Propagation</i> , IEEE, Vol. 38, No. 1, pp. 107-113 (January 1990).   |
| <i>DXN</i> | AR | 4 | Basili, P. et al., "Observation of High $C^2$ and Turbulent Path Length on OTS Space-Earth Link," <i>Electronics Letters</i> , IEE, Vol. 24, No. 17, pp. 1114-1116 (August 18, 1988).   |

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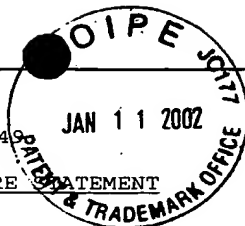
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| EXAMINER INITIAL |     | DOCUMENT NUMBER | DATE    | NAME            | CLASS | SUB-CLASS | FILING DATE |
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| <i>DXN</i>       | AA5 | 3,735,048       | 05/1973 | Tomsa et al.    | 179   | 15 BM     | ✓           |
| <i>DXN</i>       | AB5 | 3,806,811       | 04/1974 | Thompson        | 325   | 146       | ✓           |
| <i>DXN</i>       | AC5 | 3,868,601       | 02/1975 | MacAfee         | 332   | 45        | ✓           |
| <i>DXN</i>       | AD5 | 3,949,300       | 04/1976 | Sadler          | 325   | 31        | ✓           |
| <i>DXN</i>       | AE5 | 3,967,202       | 06/1976 | Batz            | 325   | 31        | ✓           |
| <i>DXN</i>       | AF5 | 3,980,945       | 09/1976 | Bickford        | 325   | 30        | ✓           |
| <i>DXN</i>       | AG5 | 3,987,280       | 10/1976 | Bauer           | 235   | 150.53    | ✓           |
| <i>DXN</i>       | AH5 | 3,991,277       | 11/1976 | Hirata          | 179   | 15 FD     | ✓           |
| <i>DXN</i>       | AI5 | 4,003,002       | 01/1977 | Snijders et al. | 332   | 10        | ✓           |

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|------------------|-----|-----------------|---------|---------|-------|-----------|-------------|
| <i>DXN</i>       | AJ5 | EP 0 632 288 A2 | 01/1995 | EP      | G01S  | 13/75     | N/A         |
| <i>DXN</i>       | AK5 | EP 0 632 288 A3 | 07/1996 | EP      | G01S  | 13/75     | N/A         |
| <i>DXN</i>       | AL5 | EP 0 696 854 A1 | 02/1996 | EP      | H04B  | 1/26      | N/A         |
| <i>DXN</i>       | AM5 | EP 0 782 275 A2 | 07/1997 | EP      | H04B  | 7/02      | N/A         |

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| <i>DXN</i> | AN | <u>5</u> | Blakey, J.R. et al., "Measurement of Atmospheric Millimetre-Wave Phase Scintillations in an Absorption Region," <i>Electronics Letters</i> , IEE, Vol. 21, No. 11, pp. 486-487 (May 23, 1985).  |
| <i>DXN</i> | AO | <u>5</u> | Burgueño, A. et al., "Influence of rain gauge integration time on the rain rate statistics used in microwave communications," <i>Annales des télécommunications</i> , International Union of Radio Science, pp. 522-527 (September/October 1988).   |
| <i>DXN</i> | AP | <u>5</u> | Burgueño, A. et al., "Long-Term Joint Statistical Analysis of Duration and Intensity of Rainfall Rate with Application to Microwave Communications," <i>Fifth International Conference on Antennas and Propagation (ICAP 87) Part 2: Propagation</i> , IEE, pp. 198-201 (March 30 - April 2, 1987). |
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| <i>DXN</i> | AR | <u>5</u> | Burgueño, A. et al., "Spectral Analysis of 49 Years of Rainfall Rate and Relation to Fade Dynamics," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 38, No. 9, pp. 1359-1366 (September 1990).  |

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|------------------|-----|-----------------|---------|-------------------|-------|-----------|---|
| <i>DXN</i>       | AA6 | 4,013,966       | 03/1977 | Campbell          | 325   | 363       | Technology Center 2600<br>JAN 11 2002<br>RECEIVED |
| <i>DXN</i>       | AB6 | 4,019,140       | 04/1977 | Swordlow          | 322   | 65        |   |
| <i>DXN</i>       | AC6 | 4,035,732       | 07/1977 | Lohrmann          | 325   | 446       |   |
| <i>DXN</i>       | AD6 | 4,047,121       | 09/1977 | Campbell          | 331   | 76        |   |
| <i>DXN</i>       | AE6 | 4,066,841       | 01/1978 | Young             | 178   | 66 R      |   |
| <i>DXN</i>       | AF6 | 4,066,919       | 01/1978 | Huntington        | 307   | 353       |   |
| <i>DXN</i>       | AG6 | 4,081,748       | 03/1978 | Batz              | 325   | 56        |   |
| <i>DXN</i>       | AH6 | 4,130,765       | 12/1978 | Arakelian et al.  | 307   | 220 R     |   |
| <i>DXN</i>       | AI6 | 4,130,806       | 12/1978 | Van Gerwen et al. | 325   | 487       |   |

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| <i>DXN</i>       | AJ6 | EP 0 785 635 A1 | 07/1997 | EP      | H04B  | 1/713     | No          |
| <i>DXN</i>       | AK6 | EP 0 795 978 A2 | 09/1997 | EP      | H04L  | 5/06      | N/A         |
| <i>DXN</i>       | AL6 | EP 0 837 565 A1 | 04/1998 | EP      | H04B  | 1/69      | N/A         |
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| <i>DXN</i> | AN | <u>6</u> | Catalan, C. and Vilar, E., "Approach for satellite slant path remote sensing," <i>Electronics Letters</i> , IEE, Vol. 34, No. 12, pp. 1238-1240 (June 11, 1998).                       |
| <i>DXN</i> | AO | <u>6</u> | Chan, P. et al., "A Highly Linear 1-GHz CMOS Downconversion Mixer," <i>European Solid State Circuits Conference</i> , IEEE Communication Society, pp. 210-213 (September 22-24, 1993). |
| <i>DXN</i> | AP | <u>6</u> | Copy of Declaration of Michael J. Bultman filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.  |
| <i>DXN</i> | AQ | <u>6</u> | Copy of Declaration of Robert W. Cook filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.  |
| <i>DXN</i> | AR | <u>6</u> | Copy of Declaration of Alex Holtz filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.  |

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*C. Chow**Dang N. Nguyen*

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| <i>Don</i> | AN | Z | Copy of Declaration of Richard C. Looke filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.  |
| <i>Don</i> | AO | Z | Copy of Declaration of Charley D. Moses, Jr. filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.   |
| <i>Don</i> | AP | Z | Copy of Declaration of Jeffrey L. Parker and David F. Sorrells, with attachment Exhibit 1, filed in patent application Ser. No. 09/176,022, which is directed to related subject matter. |
| <i>Don</i> | AQ | Z | Dewey, R.J. and Collier, C.J., "Multi-Mode Radio Receiver," Electronics Division Colloquium on Digitally Implemented Radios, IEE, pp. 3/1-3/5 (October 18, 1985).                        |
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

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U.S. PATENT &amp; TRADEMARK OFFICE

ATTY. DOCKET NO.  
1744.0260001APPLICATION NO.  
09/476,093APPLICANT  
Sorrells et al.FILING DATE  
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| DPN              | AK11 | FR 2 245 130    | 04/1975 | FR      | H03K  | 5/13      | Yes<br>(See AP50) |
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|------------------|------|-----------------|---------|--------------------|-------|-----------|-------------|
| <i>DXN</i>       | AA14 | 4,801,823       | 01/1989 | Yokoyama           | 307   | 353       |             |
| <i>DXN</i>       | AB14 | 4,806,790       | 02/1989 | Sone               | 307   | 353       |             |
| <i>DXN</i>       | AC14 | 4,810,904       | 03/1989 | Crawford           | 307   | 353       |             |
| <i>DXN</i>       | AD14 | 4,810,976       | 03/1989 | Cowley et al.      | 331   | 117 R     |             |
| <i>DXN</i>       | AE14 | 4,811,362       | 03/1989 | Yester, Jr. et al. | 375   | 75        |             |
| <i>DXN</i>       | AF14 | 4,819,252       | 04/1989 | Christopher        | 375   | 122       |             |
| <i>DXN</i>       | AG14 | 4,833,445       | 05/1989 | Buchele            | 341   | 118       |             |
| <i>DXN</i>       | AH14 | 4,862,121       | 08/1989 | Hochschild et al.  | 333   | 173       |             |
| <i>DXN</i>       | AI14 | 4,868,654       | 09/1989 | Juri et al.        | 358   | 133       |             |

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|------------------|------|-----------------|---------|---------|-------|-----------|-------------|
| <i>DXN</i>       | AJ14 | JP 8-32556      | 02/1996 | JP      | H04L  | 1/04      | No          |
| <i>DXN</i>       | AK14 | JP 8-139524     | 05/1996 | JP      | H03D  | 7/00      | No          |
| <i>DXN</i>       | AL14 | JP 59-144249    | 08/1984 | JP      | H04L  | 27/00     | No          |
| <i>DXN</i>       | AM14 | JP 63-54002     | 03/1988 | JP      | H03B  | 19/114    | No          |

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| <i>DXN</i> | AN | 14 | Itakura, T., "Effects of the sampling pulse width on the frequency characteristics of a sample-and-hold circuit," <i>IEE Proceedings Circuits, Devices and Systems</i> , IEE, Vol. 141, No. 4, pp. 328-336 (August 1994).                                   |
| <i>DXN</i> | AO | 14 | Janssen, J.M.L., "An Experimental 'Stroboscopic' Oscilloscope for Frequencies up to about 50 Mc/s: I. Fundamentals," <i>Philips Technical Review</i> , Philips Research Laboratories, Vol. 12, No. 2, pp. 52-59 (August 1950).                              |
| <i>DXN</i> | AP | 14 | Janssen, J.M.L. and Michels, A.J., "An Experimental 'Stroboscopic' Oscilloscope for Frequencies up to about 50 Mc/s: II. Electrical Build-Up," <i>Philips Technical Review</i> , Philips Research Laboratories, Vol. 12, No. 3, pp. 73-82 (September 1950). |
| <i>DXN</i> | AQ | 14 | Jondral, V.F. et al., "Doppler Profiles for Communication Satellites," <i>Frequenz</i> , Herausberger, pp. 111-116 (May-June 1996).   |
| <i>DXN</i> | AR | 14 | Kaleh, G.K., "A Frequency Diversity Spread Spectrum System for Communication in the Presence of In-band Interference," <i>1995 IEEE Globecom</i> , IEEE Communications Society, pp. 66-70 (1995).   |

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|------------------|------|-----------------|---------|---------------------|-------|-----------|-------------|
| <i>Don</i>       | AA15 | 4,870,659       | 09/1989 | Oishi et al.        | 375   | 82        | ✓           |
| <i>Don</i>       | AB15 | 4,871,987       | 10/1989 | Kawase              | 332   | 100       | ✓           |
| <i>Don</i>       | AC15 | 4,885,587       | 12/1989 | Wiegand et al.      | 42    | 14        | ✓           |
| <i>Don</i>       | AD15 | 4,885,756       | 12/1989 | Fontanes et al.     | 375   | 82        | ✓           |
| <i>Don</i>       | AE15 | 4,888,557       | 12/1989 | Puckette, IV et al. | 329   | 341       | ✓           |
| <i>Don</i>       | AF15 | 4,890,302       | 12/1989 | Muilwijk            | 375   | 80        | ✓           |
| <i>Don</i>       | AG15 | 4,893,316       | 01/1990 | Janc et al.         | 375   | 44        | ✓           |
| <i>Don</i>       | AH15 | 4,893,341       | 01/1990 | Gehring             | 381   | 7         | ✓           |
| <i>Don</i>       | AI15 | 4,894,766       | 01/1990 | De Agro             | 363   | 159       | ✓           |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE    | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|---------|---------|-------|-----------|-------------|
| <i>Don</i>       | AJ15 | JP 6-237276     | 08/1994 | JP      | H04L  | 27/20     | No          |
| <i>Don</i>       | AK15 | JP 8-23359      | 01/1996 | JP      | H04L  | 27/20     | No          |
|                  | AL15 |                 |         |         |       |           | Yes<br>No   |
|                  | AM15 |                 |         |         |       |           | Yes<br>No   |

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|------------|----|----|---|
| <i>Don</i> | AN | 15 | Karasawa, Y. et al., "A New Prediction Method for Tropospheric Scintillation on Earth-Space Paths," IEEE Transactions on Antennas and Propagation, IEEE Antennas and Propagation Society, Vol. 36, No. 11, pp. 1608-1614 (November 1988). |
| <i>Don</i> | AO | 15 | Kirsten, J. and Fleming, J., "Undersampling reduces data-acquisition costs for select applications," EDN, Cahners Publishing, Vol. 35, No. 13, pp. 217-222, 224, 226-228 (June 21, 1990).   |
| <i>Don</i> | AP | 15 | Lam, W.K. et al., "Measurement of the Phase Noise Characteristics of an Unlocked Communications Channel Identifier," Proceedings Of the 1993 IEEE International Frequency Control Symposium, IEEE, pp. 283-288 (June 2-4, 1993).          |
| <i>Don</i> | AQ | 15 | Lam, W.K. et al., "Wideband sounding of 11.6 Ghz transhorizon channel," Electronics Letters, IEE, Vol. 30, No. 9, pp. 738-739 (April 28, 1994).   |
| <i>Don</i> | AR | 15 | Larkin, K.G., "Efficient demodulator for bandpass sampled AM signals," Electronics Letters, IEE, Vol. 32, No. 2, pp. 101-102 (January 18, 1996).  |

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*C. Chow Dong So Nguyen*

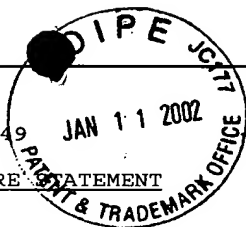
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|------------------|------|-----------------|---------|--------------------|-------|-----------|-------------|
| <i>DXN</i>       | AA16 | 4,896,152       | 01/1990 | Tiemann            | 340   | 853       | ✓           |
| <i>DXN</i>       | AB16 | 4,902,979       | 02/1990 | Puckette, IV       | 329   | 343       | ✓           |
| <i>DXN</i>       | AC16 | 4,908,579       | 03/1990 | Tawfik et al.      | 328   | 167       | ✓           |
| <i>DXN</i>       | AD16 | 4,910,752       | 03/1990 | Yester, Jr. et al. | 375   | 75        | ✓           |
| <i>DXN</i>       | AE16 | 4,914,405       | 04/1990 | Wells              | 331   | 25        | ✓           |
| <i>DXN</i>       | AF16 | 4,920,510       | 04/1990 | Senderowicz et al. | 364   | 825       | ✓           |
| <i>DXN</i>       | AG16 | 4,922,452       | 05/1990 | Larsen et al.      | 365   | 45        | ✓           |
| <i>DXN</i>       | AH16 | 4,931,921       | 06/1990 | Anderson           | 363   | 163       | ✓           |
| <i>DXN</i>       | AI16 | 4,944,025       | 07/1990 | Gehring et al.     | 455   | 207       | ✓           |

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|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ16 |                 |      |         |       |           | Yes<br>No   |
|                  | AK16 |                 |      |         |       |           | Yes<br>No   |
|                  | AL16 |                 |      |         |       |           | Yes<br>No   |
|                  | AM16 |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|            |    |           |   |
|------------|----|-----------|---|
| <i>DXN</i> | AN | <u>16</u> | Lau, W.H. et al., "Analysis of the Time Variant Structure of Microwave Line-of-sight Multipath Phenomena," IEEE Global Telecommunications Conference & Exhibition, IEEE, pp. 1707-1711 (November 28 - December 1, 1988).  |
| <i>DXN</i> | AO | <u>16</u> | Lau, W.H. et al., "Improved Prony Algorithm to Identify Multipath Components," Electronics Letters, IEE, Vol. 23, No. 20, pp. 1059-1060 (September 24, 1987).   |
| <i>DXN</i> | AP | <u>16</u> | Lesage, P. and Audoin, C., "Effect of Dead-Time on the Estimation of the Two-Sample Variance," IEEE Transactions on Instrumentation and Measurement, IEEE Instrumentation and Measurement Society, Vol. IM-28, No. 1, pp. 6-10 (March 1979).                                |
| <i>DXN</i> | AQ | <u>16</u> | Liechti, C.A., "Performance of Dual-gate GaAs MESFET's as Gain-Controlled Low-Noise Amplifiers and High-Speed Modulators," IEEE Transactions on Microwave Theory and Techniques, IEEE Microwave Theory and Techniques Society, Vol. MTT-23, No. 6, pp. 461-469 (June 1975). |
| <i>DXN</i> | AR | <u>16</u> | Linnenbrink, T.E. et al., "A One Gigasample Per Second Transient Recorder," IEEE Transactions on Nuclear Science, IEEE Nuclear and Plasma Sciences Society, Vol. NS-26, No. 4, pp. 4443-4449 (August 1979).   |

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|------------------|------|-----------------|---------|-------------------|-------|-----------|-------------|
| <i>DXN</i>       | AA17 | 4,955,079       | 09/1990 | Connerney et al.  | 455   | 325       |             |
| <i>DXN</i>       | AB17 | 4,965,467       | 10/1990 | Bilteijst         | 307   | 352       |             |
| <i>DXN</i>       | AC17 | 4,967,160       | 10/1990 | Quievy et al.     | 328   | 16        |             |
| <i>DXN</i>       | AD17 | 4,970,703       | 11/1990 | Hariharan et al.  | 367   | 138       |             |
| <i>DXN</i>       | AE17 | 4,982,353       | 01/1991 | Jacob et al.      | 364   | 724.10    |             |
| <i>DXN</i>       | AF17 | 4,984,077       | 01/1991 | Uchida            | 358   | 140       |             |
| <i>DXN</i>       | AG17 | 4,995,055       | 02/1991 | Weinberger et al. | 375   | 5         |             |
| <i>DXN</i>       | AH17 | 5,003,621       | 03/1991 | Gailus            | 455   | 209       |             |
| <i>DXN</i>       | AI17 | 5,005,169       | 04/1991 | Bronder et al.    | 370   | 76        |             |

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|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ17 |                 |      |         |       |           | Yes<br>No   |
|                  | AK17 |                 |      |         |       |           | Yes<br>No   |
|                  | AL17 |                 |      |         |       |           | Yes<br>No   |
|                  | AM17 |                 |      |         |       |           | Yes<br>No   |

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| <i>DXN</i> | AN | <u>17</u> | Liou, M.L., "A Tutorial on Computer-Aided Analysis of Switched-Capacitor Circuits," <i>Proceedings of the IEEE</i> , IEEE, Vol. 71, No. 8, pp. 987-1005 (August 1983).   |
| <i>DXN</i> | AO | <u>17</u> | Lo, P. et al., "Coherent Automatic Gain Control," <i>IEE Colloquium on Phase Locked Techniques</i> , IEE, pp. 2/1-2/6 (March 26, 1980).  |
| <i>DXN</i> | AP | <u>17</u> | Lo, P. et al., "Computation of Rain Induced Scintillations on Satellite Down-Links at Microwave Frequencies," <i>Third International Conference on Antennas and Propagation (ICAP 83)</i> , pp. 127-131 (April 12-15, 1983). |
| <i>DXN</i> | AQ | <u>17</u> | Lo, P.S.L.O. et al., "Observations of Amplitude Scintillations on a Low-Elevation Earth-Space Path," <i>Electronics Letters</i> , IEE, Vol. 20, No. 7, pp. 307-308 (March 29, 1984).   |
| <i>DXN</i> | AR | <u>17</u> | Madani, K. and Aithison, C.S., "A 20 Ghz Microwave Sampler," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE Microwave Theory and Techniques Society, Vol. 40, No. 10, pp. 1960-1963 (October 1992).      |

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|------------------|------|-----------------|---------|-------------------|-------|-----------|-------------|
| <i>DXN</i>       | AA18 | 5,006,810       | 04/1991 | Popescu           | 328   | 167       | ✓           |
| <i>DXN</i>       | AB18 | 5,010,585       | 04/1991 | Garcia            | 455   | 118       | ✓           |
| <i>DXN</i>       | AC18 | 5,014,304       | 05/1991 | Nicollini et al.  | 379   | 399       | ✓           |
| <i>DXN</i>       | AD18 | 5,015,963       | 05/1991 | Sutton            | 329   | 361       | ✓           |
| <i>DXN</i>       | AE18 | 5,017,924       | 05/1991 | Guiberteau et al. | 342   | 195       | ✓           |
| <i>DXN</i>       | AF18 | 5,020,149       | 05/1991 | Hemmie            | 455   | 325       | ✓           |
| <i>DXN</i>       | AG18 | 5,020,154       | 05/1991 | Zierhut           | 455   | 608       | ✓           |
| <i>DXN</i>       | AH18 | 5,052,050       | 09/1991 | Collier et al.    | 455   | 296       | ✓           |
| <i>DXN</i>       | AI18 | 5,065,409       | 11/1991 | Hughes et al.     | 375   | 91        | ✓           |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ18 |                 |      |         |       |           | Yes<br>No   |
|                  | AK18 |                 |      |         |       |           | Yes<br>No   |
|                  | AL18 |                 |      |         |       |           | Yes<br>No   |
|                  | AM18 |                 |      |         |       |           | Yes<br>No   |

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| <i>DXN</i> | AN | <u>18</u> | Marsland, R.A. et al., "130 Ghz GaAs monolithic integrated circuit sampling head," Appl. Phys. Lett., American Institute of Physics, Vol. 55, No. 6, pp. 592-594 (August 7, 1989).  |
| <i>DXN</i> | AO | <u>18</u> | Martin, K. and Sedra, A.S., "Switched-Capacitor Building Blocks for Adaptive Systems," IEEE Transactions on Circuits and Systems, IEEE Circuits and Systems Society, Vol. CAS-28, No. 6, pp. 576-584 (June 1981).   |
| <i>DXN</i> | AP | <u>18</u> | Marzano, F.S. and d'Auria, G., "Model-based Prediction of Amplitude Scintillation variance due to Clear-Air Tropospheric Turbulence on Earth-Satellite Microwave Links," IEEE Transactions on Antennas and Propagation, IEEE Antennas and Propagation Society, Vol. 46, No. 10, pp. 1506-1518 (October 1998). |
| <i>DXN</i> | AQ | <u>18</u> | Matricciani, E., "Prediction of fade durations due to rain in satellite communication systems," Radio Science, American Geophysical Union, Vol. 32, No. 3, pp. 935-941 (May-June 1997).   |
| <i>DXN</i> | AR | <u>18</u> | McQueen, J.G., "The Monitoring of High-Speed Waveforms," Electronic Engineering, Morgan Brothers Limited, Vol. XXIV, No. 296, pp. 436-441 (October 1952).   |

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|------------------|------|-----------------|---------|--------------|-------|-----------|-------------|
| DXN              | AA19 | 5,083,050       | 01/1992 | Vasile       | 307   | 529       | 1           |
| DXN              | AB19 | 5,091,921       | 02/1992 | Minami       | 375   | 88        | 1           |
| DXN              | AC19 | 5,095,533       | 03/1992 | Loper et al. | 455   | 245       | 1           |
| DXN              | AD19 | 5,095,536       | 03/1992 | Loper        | 455   | 324       | 1           |
| DXN              | AE19 | 5,111,152       | 05/1992 | Makino       | 329   | 300       | 1           |
| DXN              | AF19 | 5,113,094       | 06/1992 | Grace et al. | 307   | 520       | 1           |
| DXN              | AG19 | 5,113,129       | 05/1992 | Hughes       | 323   | 316       | 1           |
| DXN              | AH19 | 5,122,765       | 06/1992 | Pataut       | 332   | 105       | 1           |
| DXN              | AI19 | 5,124,592       | 06/1992 | Hagino       | 307   | 520       | 1           |

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|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ19 |                 |      |         |       |           | Yes<br>No   |
|                  | AK19 |                 |      |         |       |           | Yes<br>No   |
|                  | AL19 |                 |      |         |       |           | Yes<br>No   |
|                  | AM19 |                 |      |         |       |           | Yes<br>No   |

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| DXN | AN | 19 | Merkelo, J. and Hall, R.D., "Broad-Band Thin-Film Signal Sampler," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-7, No. 1, pp. 50-54 (February 1972).  |
| DXN | AO | 19 | Merlo, U. et al., "Amplitude Scintillation Cycles in a Sirio Satellite-Earth Link," <i>Electronics Letters</i> , IEE, Vol. 21, No. 23, pp. 1094-1096 (November 7, 1985).   |
| DXN | AP | 19 | Morris, D., "Radio-holographic reflector measurement of the 30-m millimeter radio telescope at 22 Ghz with a cosmic signal source," <i>Astronomy and Astrophysics</i> , Springer-Verlag, Vol. 203, No. 2, pp. 399-406 (September (II) 1988).     |
| DXN | AQ | 19 | Moulsley, T.J. et al., "The efficient acquisition and processing of propagation statistics," <i>Journal of the Institution of Electronic and Radio Engineers</i> , IERE, Vol. 55, No. 3, pp. 97-103 (March 1985).                                |
| DXN | AR | 19 | Ndizi, D. et al., "Wide-Band Statistical Characterization of an Over-the-Sea Experimental Transhorizon Link," <i>IEE Colloquium on Radio Communications at Microwave and Millimetre Wave Frequencies</i> , IEE, pp. 1/1-1/6 (December 16, 1996). |

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|------------------|------|-----------------|---------|-----------------|-------|-----------|-------------|
| DXN              | AA20 | 5,136,267       | 08/1992 | Cabot           | 333   | 174       |             |
| DXN              | AB20 | 5,140,705       | 08/1992 | Kosuga          | 455   | 318       |             |
| DXN              | AC20 | 5,150,124       | 09/1992 | Moore et al.    | 342   | 68        |             |
| DXN              | AD20 | 5,151,661       | 09/1992 | Caldwell et al. | 328   | 14        |             |
| DXN              | AE20 | 5,159,710       | 10/1992 | Cusdin          | 455   | 304       |             |
| DXN              | AE20 | 5,170,414       | 12/1992 | Silvian         | 375   | 59        |             |
| DXN              | AG20 | 5,172,070       | 12/1992 | Hiraiwa et al.  | 329   | 304       |             |
| DXN              | AH20 | 5,191,459       | 03/1993 | Thompson et al. | 359   | 133       |             |
| DXN              | AI20 | 5,204,642       | 04/1993 | Ashgar et al.   | 331   | 135       |             |

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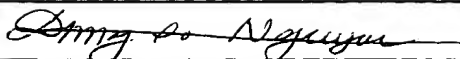
| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ20 |                 |      |         |       |           | Yes<br>No   |
|                  | AK20 |                 |      |         |       |           | Yes<br>No   |
|                  | AL20 |                 |      |         |       |           | Yes<br>No   |
|                  | AM20 |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|     |    |    |  |
|-----|----|----|--|
| DXN | AN | 20 | Ndzi, D. et al., "Wideband Statistics of Signal Levels and Doppler Spread on an Over-The-Sea Transhorizon Link," IEE Colloquium on Propagation Characteristics and Related System Techniques for Beyond Line-of-Sight Radio, IEE, pp. 9/1-9/6 (November 24, 1997). |
| DXN | AO | 20 | "New zero IF chipset from Philips," Electronic Engineering, United News & Media, Vol. 67, No. 825, p. 10 (September 1995).   |
| DXN | AP | 20 | Ohara, H. et al., "First monolithic PCM filter cuts cost of telecomm systems," Electronic Design, Hayden Publishing Company, Vol. 27, No. 8, pp. 130-135 (April 12, 1979).   |
| DXN | AQ | 20 | Oppenheim, A.V. et al., Signals and Systems, Prentice-Hall, pp. 527-531 and 561-562 (1983).  |
| DXN | AR | 20 | Ortgies, G., "Experimental Parameters Affecting Amplitude Scintillation Measurements on Satellite Links," Electronics Letters, IEE, Vol. 21, No. 17, pp. 771-772 (August 15, 1985).  |

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8-4-03 5/15/2003

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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
1744.0260001APPLICATION NO.  
09/476,093APPLICANT  
Sorrells et al.FILING DATE  
January 3, 2000GROUP  
2631

## U.S. PATENT DOCUMENTS

| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE    | NAME          | CLASS | SUB-CLASS | FILING DATE |
|------------------|------|-----------------|---------|---------------|-------|-----------|-------------|
| <i>DAN</i>       | AA21 | 5,212,827       | 05/1993 | Meszko et al. | 455   | 219       | ✓           |
| <i>DAN</i>       | AB21 | 5,214,787       | 05/1993 | Karkota, Jr.  | 455   | 3.2       | ✓           |
| <i>DAN</i>       | AC21 | 5,220,583       | 06/1993 | Solomon       | 375   | 82        | ✓           |
| <i>DAN</i>       | AD21 | 5,220,680       | 06/1993 | Lee           | 455   | 102       | ✓           |
| <i>DAN</i>       | AE21 | 5,222,144       | 06/1993 | Whikehart     | 381   | 15        | ✓           |
| <i>DAN</i>       | AF21 | 5,230,097       | 07/1993 | Currie et al. | 455   | 226.1     | ✓           |
| <i>DAN</i>       | AG21 | 5,239,686       | 08/1993 | Downey        | 455   | 78        | ✓           |
| <i>DAN</i>       | AH21 | 5,241,561       | 08/1993 | Barnard       | 375   | 1         | ✓           |
| <i>DAN</i>       | AI21 | 5,249,203       | 09/1993 | Loper         | 375   | 97        | ✓           |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ21 |                 |      |         |       |           | Yes<br>No   |
|                  | AK21 |                 |      |         |       |           | Yes<br>No   |
|                  | AL21 |                 |      |         |       |           | Yes<br>No   |
|                  | AM21 |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|            |    |    |   |
|------------|----|----|---|
| <i>DAN</i> | AN | 21 | Pärssinen et al., "A 2-GHz Subharmonic Sampler for Signal Downconversion," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE, Vol. 45, No. 12, 7 pages (December 1997).  |
| <i>DAN</i> | AO | 21 | Peeters, G. et al., "Evaluation of Statistical Models for Clear-Air Scintillation Prediction Using Olympus Satellite Measurements," <i>International Journal of Satellite Communications</i> , John Wiley and Sons, Vol. 15, No. 2, pp. 73-88 (March-April 1997). |
| <i>DAN</i> | AP | 21 | Perrey, A.G. and Schoenwetter, H.K., <i>NBS Technical Note 1121: A Schottky Diode Bridge Sampling Gate</i> , U.S. Dept. of Commerce, pp. 1-14 (May 1980).   |
| <i>DAN</i> | AQ | 21 | Poulton, K. et al., "A 1-GHz 6-bit ADC System," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-22, No. 6, pp. 962-969 (December 1987).   |
| <i>DAN</i> | AR | 21 | Press Release, "Parkervision, Inc. Announces Fiscal 1993 Results," Lippert/Heilshorn and Associates, 2 Pages (April 6, 1994).   |

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C. Chow*Dong P. Nguyen*

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8-4-03 5/5/2003

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## U.S. PATENT DOCUMENTS

| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE    | NAME          | CLASS | SUB-CLASS | FILING DATE |
|------------------|------|-----------------|---------|---------------|-------|-----------|-------------|
| <i>DXN</i>       | AA22 | 5,251,218       | 10/1993 | Stone et al.  | 370   | 120       |             |
| <i>DXN</i>       | AB22 | 5,251,232       | 10/1993 | Nonami        | 375   | 5         |             |
| <i>DXN</i>       | AC22 | 5,260,970       | 11/1993 | Henry et al.  | 375   | 10        |             |
| <i>DXN</i>       | AD22 | 5,263,194       | 11/1993 | Ragan         | 455   | 316       |             |
| <i>DXN</i>       | AE22 | 5,263,196       | 11/1993 | Jasper        | 455   | 324       |             |
| <i>DXN</i>       | AF22 | 5,267,023       | 11/1993 | Kawasaki      | 358   | 23        |             |
| <i>DXN</i>       | AG22 | 5,278,826       | 01/1994 | Murphy et al. | 370   | 76        |             |
| <i>DXN</i>       | AH22 | 5,282,023       | 01/1994 | Scarpa        | 358   | 36        |             |
| <i>DXN</i>       | AI22 | 5,287,516       | 02/1994 | Schaub        | 375   | 88        |             |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ22 |                 |      |         |       |           | Yes<br>No   |
|                  | AK22 |                 |      |         |       |           | Yes<br>No   |
|                  | AL22 |                 |      |         |       |           | Yes<br>No   |
|                  | AM22 |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|            |    |           |   |
|------------|----|-----------|---|
| <i>DXN</i> | AN | <u>22</u> | Press Release, "Parkervision, Inc. Announces the Appointment of Michael Baker to the New Position of National Sales Manager," Lippert/Heilshorn and Associates, 1 Page (April 7, 1994). |
| <i>DXN</i> | AO | <u>22</u> | Press Release, "Parkervision's Cameraman Well-Received By Distance Learning Market," Lippert/Heilshorn and Associates, 2 Pages (April 8, 1994).   |
| <i>DXN</i> | AP | <u>22</u> | Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 2 Pages (April 26, 1994).  |
| <i>DXN</i> | AQ | <u>22</u> | Press Release, "Parkervision, Inc. Announces The Retirement of William H. Fletcher, Chief Financial Officer," Lippert/Heilshorn and Associates, 1 Page (May 11, 1994).                  |
| <i>DXN</i> | AR | <u>22</u> | Press Release, "Parkervision, Inc. Announces New Cameraman System II™ At Infocomm Trade Show," Lippert/Heilshorn and Associates, 3 Pages (June 9, 1994).                                |

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8-403

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE    | NAME           | CLASS | SUB-CLASS | FILING DATE |
|------------------|------|-----------------|---------|----------------|-------|-----------|-------------|
| <i>DN</i>        | AA23 | 5,293,398       | 03/1994 | Hamao et al.   | 375   | 1         |             |
| <i>DN</i>        | AB23 | 5,303,417       | 04/1994 | Laws           | 455   | 314       |             |
| <i>DN</i>        | AC23 | 5,307,517       | 04/1994 | Rich           | 455   | 306       |             |
| <i>DN</i>        | AD23 | 5,315,583       | 05/1994 | Murphy et al.  | 370   | 18        |             |
| <i>DN</i>        | AE23 | 5,321,852       | 06/1994 | Seong          | 455   | 182.1     |             |
| <i>DN</i>        | AF23 | 5,325,204       | 06/1994 | Scarpa         | 348   | 607       |             |
| <i>DN</i>        | AG23 | 5,337,014       | 08/1994 | Najle et al.   | 324   | 613       |             |
| <i>DN</i>        | AH23 | 5,339,054       | 08/1994 | Taguchi        | 332   | 100       |             |
| <i>DN</i>        | AI23 | 5,339,459       | 08/1994 | Schiltz et al. | 455   | 333       |             |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ23 |                 |      |         |       |           | Yes<br>No   |
|                  | AK23 |                 |      |         |       |           | Yes<br>No   |
|                  | AL23 |                 |      |         |       |           | Yes<br>No   |
|                  | AM23 |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|           |    |           |  |
|-----------|----|-----------|--|
| <i>DN</i> | AN | <u>23</u> | Press Release, "Parkervision, Inc. Announces Appointments to its National Sales Force," Lippert/Heilshorn and Associates, 2 Pages (June 17, 1994).                     |
| <i>DN</i> | AO | <u>23</u> | Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," Lippert/Heilshorn and Associates, 3 Pages (August 9, 1994).             |
| <i>DN</i> | AP | <u>23</u> | Press Release, "Parkervision, Inc. Announces Third Quarter and Nine Months Financial Results," Lippert/Heilshorn and Associates, 3 Pages (October 28, 1994).           |
| <i>DN</i> | AQ | <u>23</u> | Press Release, "Parkervision, Inc. Announces First Significant Dealer Sale of Its Cameraman® System II," Lippert/Heilshorn and Associates, 2 Pages (November 7, 1994). |
| <i>DN</i> | AR | <u>23</u> | Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Results," Lippert/Heilshorn and Associates, 2 Pages (March 1, 1995).                          |

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C. Chow

*Dan P. Nguyen*

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7/5/2003

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## U.S. PATENT DOCUMENTS

| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE    | NAME             | CLASS | SUB-CLASS | FILING DATE |
|------------------|------|-----------------|---------|------------------|-------|-----------|-------------|
| DPN              | AA24 | 5,355,114       | 10/1994 | Sutterlin et al. | 340   | 310 A     |             |
| DPN              | AB24 | 5,361,408       | 11/1994 | Watanabe et al.  | 455   | 324       |             |
| DPN              | AC24 | 5,369,800       | 11/1994 | Takagi et al.    | 455   | 59        |             |
| DPN              | AD24 | 5,375,146       | 12/1994 | Chalmers         | 375   | 103       |             |
| DPN              | AF24 | 5,379,040       | 01/1995 | Mizomoto et al.  | 341   | 143       |             |
| DPN              | AF24 | 5,379,141       | 01/1995 | Thompson et al.  | 359   | 125       |             |
| DPN              | AG24 | 5,388,063       | 02/1995 | Takatori et al.  | 364   | 724.17    |             |
| DPN              | AH24 | 5,390,364       | 02/1995 | Webster et al.   | 455   | 52.3      |             |
| DPN              | AI24 | 5,400,084       | 03/1995 | Scarpa           | 348   | 624       |             |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ24 |                 |      |         |       |           | Yes<br>No   |
|                  | AK24 |                 |      |         |       |           | Yes<br>No   |
|                  | AL24 |                 |      |         |       |           | Yes<br>No   |
|                  | AM24 |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|     |    |    |   |
|-----|----|----|---|
| DPN | AN | 24 | Press Release, "Parkervision, Inc. Announces Joint Product Developments With VTEL," Lippert/Heilshorn and Associates, 2 Pages (March 21, 1995).             |
| DPN | AO | 24 | Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 3 Pages (April 28, 1995).                  |
| DPN | AP | 24 | Press Release, "Parkervision Wins Top 100 Product Districts' Choice Award," Parkervision Marketing and Manufacturing Headquarters, 1 Page (June 29, 1995).  |
| DPN | AQ | 24 | Press Release, "Parkervision National Sales Manager Next President of USDLA," Parkervision Marketing and Manufacturing Headquarters, 1 Page (July 6, 1995). |
| DPN | AR | 24 | Press Release, "Parkervision Granted New Patent," Parkervision Marketing and Manufacturing Headquarters, 1 Page (July 21, 1995).                            |

EXAMINER

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Strong, D. Aguiar

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1744.0260001APPLICATION NO.  
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## U.S. PATENT DOCUMENTS

| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE    | NAME          | CLASS | SUB-CLASS | FILING DATE |
|------------------|------|-----------------|---------|---------------|-------|-----------|-------------|
| <i>DN</i>        | AA25 | 5,404,127       | 04/1995 | Lee et al.    | 340   | 310.02    | ✓           |
| <i>DN</i>        | AB25 | 5,410,541       | 04/1995 | Hotto         | 370   | 76        | ✓           |
| <i>DN</i>        | AC25 | 5,410,743       | 04/1995 | Seely et al.  | 455   | 326       | ✓           |
| <i>DN</i>        | AD25 | 5,412,352       | 05/1995 | Graham        | 332   | 103       | ✓           |
| <i>DN</i>        | AE25 | 5,416,803       | 05/1995 | Janer         | 375   | 324       | ✓           |
| <i>DN</i>        | AF25 | 5,422,913       | 05/1995 | Wilkinson     | 375   | 347       | ✓           |
| <i>DN</i>        | AG25 | 5,423,082       | 06/1995 | Cygan et al.  | 455   | 126       | ✓           |
| <i>DN</i>        | AH25 | 5,428,638       | 06/1995 | Cioffi et al. | 375   | 224       | ✓           |
| <i>DN</i>        | AI25 | 5,428,640       | 06/1995 | Townley       | 375   | 257       | ✓           |

## FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ25 |                 |      |         |       |           | Yes<br>No   |
|                  | AK25 |                 |      |         |       |           | Yes<br>No   |
|                  | AL25 |                 |      |         |       |           | Yes<br>No   |
|                  | AM25 |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|           |    |           |  |
|-----------|----|-----------|--|
| <i>DN</i> | AN | <u>25</u> | Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (July 31, 1995).       |
| <i>DN</i> | AO | <u>25</u> | Press Release, "Parkervision, Inc. Expands Its Cameraman System II Product Line," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (September 22, 1995).               |
| <i>DN</i> | AP | <u>25</u> | Press Release, "Parkervision Announces New Camera Control Technology," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 25, 1995).                            |
| <i>DN</i> | AQ | <u>25</u> | Press Release, "Parkervision, Inc. Announces Completion of VTEL/Parkervision Joint Product Line," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 30, 1995). |
| <i>DN</i> | AR | <u>25</u> | Press Release, "Parkervision, Inc. Announces Third Quarter and Nine Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 30, 1995).    |

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C. Chow

*Song xo Nguyen*

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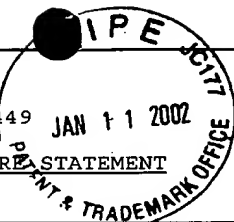
5-403 5/5/2003

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|------------------|------|-----------------|---------|-----------------|-------|-----------|-------------|
| <i>DXN</i>       | AA26 | 5,434,546       | 07/1995 | Palmer          | 332   | 151       | ✓           |
| <i>DXN</i>       | AB26 | 5,438,692       | 08/1995 | Mohindra        | 455   | 324       | ✓           |
| <i>DXN</i>       | AC26 | 5,444,415       | 08/1995 | Dent et al.     | 329   | 302       | ✓           |
| <i>DXN</i>       | AD26 | 5,444,416       | 08/1995 | Ishikawa et al. | 329   | 341       | ✓           |
| <i>DXN</i>       | AE26 | 5,444,865       | 08/1995 | Heck et al.     | 455   | 86        | ✓           |
| <i>DXN</i>       | AF26 | 5,446,421       | 08/1995 | Kechkaylo       | 332   | 100       | ✓           |
| <i>DXN</i>       | AG26 | 5,446,422       | 08/1995 | Mattila et al.  | 332   | 103       | ✓           |
| <i>DXN</i>       | AH26 | 5,448,602       | 09/1995 | Ohmori et al.   | 375   | 347       | ✓           |
| <i>DXN</i>       | AI26 | 5,451,899       | 09/1995 | Lawton          | 329   | 302       | ✓           |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ26 |                 |      |         |       |           | Yes<br>No   |
|                  | AK26 |                 |      |         |       |           | Yes<br>No   |
|                  | AL26 |                 |      |         |       |           | Yes<br>No   |
|                  | AM26 |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|            |    |           |  |
|------------|----|-----------|--|
| <i>DXN</i> | AN | <u>26</u> | Press Release, "Parkervision's Cameraman Personal Locator Camera System Wins Telecon XV Award," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (November 1, 1995). |
| <i>DXN</i> | AO | <u>26</u> | Press Release, "Parkervision, Inc. Announces Purchase Commitment From VTEL Corporation," Parkervision Marketing and Manufacturing Headquarters, 1 Page (February 26, 1996).        |
| <i>DXN</i> | AP | <u>26</u> | Press Release, "ParkerVision, Inc. Announces Fourth Quarter and Year End Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (February 27, 1996).             |
| <i>DXN</i> | AQ | <u>26</u> | Press Release, "ParkerVision, Inc. Expands its Product Line," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (March 7, 1996).                                      |
| <i>DXN</i> | AR | <u>26</u> | Press Release, "ParkerVision Files Patents for its Research of Wireless Technology," Parkervision Marketing and Manufacturing Headquarters, 1 Page (March 28, 1996).               |

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*5/5/2003*

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|------------------|------|-----------------|---------|------------------|-------|-----------|-------------|
| DPN              | AA27 | 5,454,007       | 09/1995 | Dutta            | 375   | 322       |             |
| DPN              | AB27 | 5,454,009       | 09/1995 | Fruit et al.     | 372   | 202       |             |
| DPN              | AC27 | 5,463,356       | 10/1995 | Palmer           | 332   | 117       |             |
| DPN              | AD27 | 5,463,357       | 10/1995 | Hobden           | 332   | 151       |             |
| DPN              | AE27 | 5,465,071       | 11/1995 | Kobayashi et al. | 329   | 315       |             |
| DPN              | AF27 | 5,465,410       | 11/1995 | Hiben et al.     | 455   | 266       |             |
| DPN              | AG27 | 5,465,415       | 11/1995 | Bien             | 455   | 326       |             |
| DPN              | AH27 | 5,471,162       | 11/1995 | McEwan           | 327   | 92        |             |
| DPN              | AI27 | 5,479,120       | 12/1995 | McEwan           | 327   | 91        |             |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ27 |                 |      |         |       |           | Yes<br>No   |
|                  | AK27 |                 |      |         |       |           | Yes<br>No   |
|                  | AL27 |                 |      |         |       |           | Yes<br>No   |
|                  | AM27 |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|     |    |    |  |
|-----|----|----|--|
| DPN | AN | 27 | Press Release, "Parkervision, Inc. Announces First Significant Sale of Its Cameraman® Three-Chip System," Parkervision Marketing and Manufacturing Headquarters, 2 pages (April 12, 1996). |
| DPN | AO | 27 | Press Release, "Parkervision, Inc. Introduces New Product Line For Studio Production Market," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (April 15, 1996).             |
| DPN | AP | 27 | Press Release, "Parkervision, Inc. Announces Private Placement of 800,000 Shares," Parkervision Marketing and Manufacturing Headquarters, 1 Page (April 15, 1996).                         |
| DPN | AQ | 27 | Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (April 30, 1996).                            |
| DPN | AR | 27 | Press Release, "ParkerVision's New Studio Product Wins Award," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (June 5, 1996).  |

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Sony D. Nguyen

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## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
1744.0260001APPLICATION NO.  
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## U.S. PATENT DOCUMENTS

| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE    | NAME             | CLASS | SUB-CLASS | FILING DATE                                       |
|------------------|------|-----------------|---------|------------------|-------|-----------|---|
| <i>Don</i>       | AA28 | 5,479,447       | 12/1995 | Chow et al.      | 375   | 260       | RECEIVED<br>JAN 14 2002<br>Technology Center 2600 |
| <i>Don</i>       | AB28 | 5,483,193       | 01/1996 | Kennedy et al.   | 329   | 300       |   |
| <i>Don</i>       | AC28 | 5,483,549       | 01/1996 | Weinberg et al.  | 375   | 200       |   |
| <i>Don</i>       | AD28 | 5,483,691       | 01/1996 | Heck et al.      | 455   | 234.2     |   |
| <i>Don</i>       | AE28 | 5,490,173       | 02/1996 | Whikehart et al. | 375   | 316       |   |
| <i>Don</i>       | AF28 | 5,493,581       | 02/1996 | Young et al.     | 375   | 350       |   |
| <i>Don</i>       | AG28 | 5,493,721       | 02/1996 | Reis             | 455   | 339       |   |
| <i>Don</i>       | AH28 | 5,495,200       | 02/1996 | Kwan et al.      | 327   | 554       |   |
| <i>Don</i>       | AI28 | 5,495,202       | 02/1996 | Hsu              | 327   | 113       |   |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ28 |                 |      |         |       |           | Yes<br>No   |
|                  | AK28 |                 |      |         |       |           | Yes<br>No   |
|                  | AL28 |                 |      |         |       |           | Yes<br>No   |
|                  | AM28 |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|            |    |           |   |
|------------|----|-----------|---|
| <i>Don</i> | AN | <u>28</u> | Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (August 1, 1996).   |
| <i>Don</i> | AO | <u>28</u> | Press Release, "Parkervision, Inc. Announces Third Quarter and Nine Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 29, 1996). |
| <i>Don</i> | AP | <u>28</u> | Press Release, "PictureTel and ParkerVision Sign Reseller Agreement," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 30, 1996).                          |
| <i>Don</i> | AQ | <u>28</u> | Press Release, "CLI and ParkerVision Bring Enhanced Ease-of-Use to Videoconferencing," CLI/Parkervision, 2 Pages (January 20, 1997).  |
| <i>Don</i> | AR | <u>28</u> | Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (February 27, 1997).            |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE    | NAME              | CLASS | SUB-CLASS | FILING DATE |
|------------------|------|-----------------|---------|-------------------|-------|-----------|-------------|
| DXN              | AA29 | 5,495,500       | 02/1996 | Jovanovich et al. | 375   | 206       |             |
| DXN              | AB29 | 5,499,267       | 03/1996 | Ohe et al.        | 375   | 206       |             |
| DXN              | AC29 | 5,500,758       | 03/1996 | Thompson et al.   | 359   | 189       |             |
| DXN              | AD29 | 5,517,688       | 05/1996 | Fajen et al.      | 455   | 333       |             |
| DXN              | AE29 | 5,519,890       | 05/1996 | Pinckley          | 455   | 307       |             |
| DXN              | AF29 | 5,523,719       | 06/1996 | Longo et al.      | 327   | 557       |             |
| DXN              | AG29 | 5,523,726       | 06/1996 | Kroeger et al.    | 332   | 103       |             |
| DXN              | AH29 | 5,523,760       | 06/1996 | McEwan            | 342   | 89        |             |
| DXN              | AI29 | 5,539,770       | 07/1996 | Ishigaki          | 375   | 206       |             |

## FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ29 |                 |      |         |       |           | Yes<br>No   |
|                  | AK29 |                 |      |         |       |           | Yes<br>No   |
|                  | AL29 |                 |      |         |       |           | Yes<br>No   |
|                  | AM29 |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|     |    |    |   |
|-----|----|----|---|
| DXN | AN | 29 | Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (April 29, 1997).                           |
| DXN | AO | 29 | Press Release, "NEC and Parkervision Make Distance Learning Closer," NEC America, 2 Pages (June 18, 1997).  |
| DXN | AP | 29 | Press Release, "Parkervision Supplies JPL with Robotic Cameras, Cameraman Shot Director for Mars Mission," Parkervision Marketing and Manufacturing Headquarters, 2 pages (July 8, 1997). |
| DXN | AQ | 29 | Press Release, "ParkerVision and IBM Join Forces to Create Wireless Computer Peripherals," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (July 23, 1997).                |
| DXN | AR | 29 | Press Release, "ParkerVision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (July 31, 1997).            |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE    | NAME             | CLASS | SUB-CLASS | FILING DATE |
|------------------|------|-----------------|---------|------------------|-------|-----------|-------------|
| DPN              | AA30 | 5,555,453       | 09/1996 | Kajimoto et al.  | 455   | 266       | /           |
| DPN              | AB30 | 5,557,641       | 09/1996 | Weinberg         | 375   | 295       | /           |
| DPN              | AC30 | 5,557,642       | 09/1996 | Williams         | 375   | 316       | /           |
| DPN              | AD30 | 5,579,341       | 11/1996 | Smith et al.     | 375   | 267       | /           |
| DPN              | AE30 | 5,579,347       | 11/1996 | Lindquist et al. | 375   | 346       | /           |
| DPN              | AF30 | 5,584,068       | 12/1996 | Mohindra         | 455   | 324       | /           |
| DPN              | AG30 | 5,592,131       | 01/1997 | Labreche et al.  | 332   | 103       | /           |
| DPN              | AH30 | 5,602,847       | 02/1997 | Pagano et al.    | 370   | 484       | /           |
| DPN              | AI30 | 5,602,868       | 02/1997 | Wilson           | 375   | 219       | /           |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ30 |                 |      |         |       |           | Yes<br>No   |
|                  | AK30 |                 |      |         |       |           | Yes<br>No   |
|                  | AL30 |                 |      |         |       |           | Yes<br>No   |
|                  | AM30 |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|     |    |    |  |
|-----|----|----|--|
| DPN | AN | 30 | Press Release, "Parkervision, Inc. Announces Private Placement of 990,000 Shares," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (September 8, 1997).   |
| DPN | AO | 30 | Press Release, "Wal-Mart Chooses Parkervision for Broadcast Production," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 24, 1997).  |
| DPN | AP | 30 | Press Release, "Parkervision, Inc. Announces Third Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (October 30, 1997).  |
| DPN | AQ | 30 | Press Release, "ParkerVision Announces Breakthrough in Wireless Radio Frequency Technology," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (December 10, 1997).   |
| DPN | AR | 30 | Press Release, "Parkervision, Inc. Announces the Appointment of Joseph F. Skovron to the Position of Vice President, Licensing - Wireless Technologies," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (January 9, 1998). |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE    | NAME          | CLASS | SUB-CLASS | FILING DATE |
|------------------|------|-----------------|---------|---------------|-------|-----------|-------------|
| <i>DxN</i>       | AA31 | 5,604,732       | 02/1997 | Kim et al.    | 370   | 342       |             |
| <i>DxN</i>       | AB31 | 5,608,531       | 03/1997 | Honda et al.  | 386   | 1         |             |
| <i>DxN</i>       | AC31 | 5,610,946       | 03/1997 | Tanaka et al. | 375   | 269       |             |
| <i>DxN</i>       | AD31 | RE 35,494       | 04/1997 | Nicollini     | 327   | 554       |             |
| <i>DxN</i>       | AE31 | 5,617,451       | 04/1997 | Mimura et al. | 375   | 340       |             |
| <i>DxN</i>       | AF31 | 5,619,538       | 04/1997 | Sempel et al. | 375   | 328       |             |
| <i>DxN</i>       | AG31 | 5,621,455       | 04/1997 | Rogers et al. | 348   | 6         |             |
| <i>DxN</i>       | AH31 | 5,630,227       | 05/1997 | Bella et al.  | 455   | 324       |             |
| <i>DxN</i>       | AI31 | 5,640,415       | 06/1997 | Pandula       | 375   | 202       |             |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ31 |                 |      |         |       |           | Yes<br>No   |
|                  | AK31 |                 |      |         |       |           | Yes<br>No   |
|                  | AL31 |                 |      |         |       |           | Yes<br>No   |
|                  | AM31 |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|            |    |           |   |
|------------|----|-----------|---|
| <i>DxN</i> | AN | <u>31</u> | Press Release, "Parkervision Announces Existing Agreement with IBM Terminates-- Company Continues with Strategic Focus Announced in December," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (January 27, 1998). |
| <i>DxN</i> | AO | <u>31</u> | Press Release, "Laboratory Tests Verify Parkervision Wireless Technology," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (March 3, 1998).  |
| <i>DxN</i> | AP | <u>31</u> | Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (March 5, 1998).  |
| <i>DxN</i> | AQ | <u>31</u> | Press Release, "Parkervision Awarded Editors' Pick of Show for NAB 98," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (April 15, 1998).  |
| <i>DxN</i> | AR | <u>31</u> | Press Release, "Parkervision Announces First Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (May 4, 1998).  |

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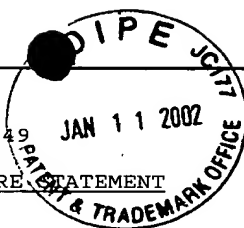
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|------------------|------|-----------------|---------|-----------------|-------|-----------|-------------|
| <i>DXN</i>       | AA32 | 5,640,424       | 06/1997 | Banavong et al. | 375   | 316       |             |
| <i>DXN</i>       | AB32 | 5,640,428       | 06/1997 | Abe et al.      | 375   | 334       |             |
| <i>DXN</i>       | AC32 | 5,640,698       | 06/1997 | Shen et al.     | 455   | 323       |             |
| <i>DXN</i>       | AD32 | 5,648,985       | 07/1997 | Bjerede et al.  | 375   | 219       |             |
| <i>DXN</i>       | AE32 | 5,650,785       | 07/1997 | Rodal           | 342   | 357       |             |
| <i>DXN</i>       | AF32 | 5,661,424       | 08/1997 | Tang            | 327   | 105       |             |
| <i>DXN</i>       | AG32 | 5,663,878       | 09/1997 | Walker          | 363   | 159       |             |
| <i>DXN</i>       | AH32 | 5,663,986       | 09/1997 | Striffler       | 375   | 260       |             |
| <i>DXN</i>       | AI32 | 5,668,836       | 09/1997 | Smith et al.    | 375   | 316       |             |

## FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ32 |                 |      |         |       |           | Yes<br>No   |
|                  | AK32 |                 |      |         |       |           | Yes<br>No   |
|                  | AL32 |                 |      |         |       |           | Yes<br>No   |
|                  | AM32 |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|            |    |           |  |
|------------|----|-----------|--|
| <i>DXN</i> | AN | <u>32</u> | Press Release, "Parkervision 'DIRECT2DATA' Introduced in Response to Market Demand," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (July 9, 1998).          |
| <i>DXN</i> | AO | <u>32</u> | Press Release, "Parkervision Expands Senior Management Team," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (July 29, 1998).                                |
| <i>DXN</i> | AP | <u>32</u> | Press Release, "Parkervision Announces Second Quarter and Six Month Financial Results," Parkervision Marketing and Manufacturing Headquarters, 4 Pages (July 30, 1998).      |
| <i>DXN</i> | AQ | <u>32</u> | Press Release, "Parkervision Announces Third Quarter and Nine Month Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (October 30, 1998).   |
| <i>DXN</i> | AR | <u>32</u> | Press Release, "Questar Infocomm, Inc. Invests \$5 Million in Parkervision Common Stock," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (December 2, 1998). |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE    | NAME             | CLASS | SUB-CLASS | FILING DATE |
|------------------|------|-----------------|---------|------------------|-------|-----------|-------------|
| <i>DPN</i>       | AA33 | 5,680,078       | 10/1997 | Ariie            | 332   | 178       |             |
| <i>DPN</i>       | AB33 | 5,680,418       | 10/1997 | Croft et al.     | 375   | 346       |             |
| <i>DPN</i>       | AC33 | 5,689,413       | 11/1997 | Jaramillo et al. | 363   | 146       |             |
| <i>DPN</i>       | AD33 | 5,699,006       | 12/1997 | Zelev et al.     | 327   | 341       |             |
| <i>DPN</i>       | AE33 | 5,705,955       | 01/1998 | Freeburg et al.  | 331   | 14        |             |
| <i>DPN</i>       | AF33 | 5,710,998       | 01/1998 | Opas             | 455   | 324       |             |
| <i>DPN</i>       | AG33 | 5,714,910       | 02/1998 | Skoczen et al.   | 331   | 3         |             |
| <i>DPN</i>       | AH33 | 5,715,281       | 02/1998 | Bly et al.       | 375   | 344       |             |
| <i>DPN</i>       | AI33 | 5,721,514       | 02/1998 | Crockett et al.  | 331   | 3         |             |

## FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ33 |                 |      |         |       |           | Yes<br>No   |
|                  | AK33 |                 |      |         |       |           | Yes<br>No   |
|                  | AL33 |                 |      |         |       |           | Yes<br>No   |
|                  | AM33 |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|            |    |           |  |
|------------|----|-----------|--|
| <i>DPN</i> | AN | <u>33</u> | Press Release, "Parkervision Adds Two New Directors," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (March 5, 1999).                                      |
| <i>DPN</i> | AO | <u>33</u> | Press Release, "Parkervision Announces Fourth Quarter and Year End Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (March 5, 1999).     |
| <i>DPN</i> | AP | <u>33</u> | Press Release, "Joint Marketing Agreement Offers New Automated Production Solution," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (April 13, 1999).      |
| <i>DPN</i> | AQ | <u>33</u> | "Project COST 205: Scintillations in Earth-satellite links," <i>Alta Frequenza: Scientific Review in Electronics</i> , AEI, Vol. LIV, No. 3, pp. 209-211 (May-June, 1985). |
| <i>DPN</i> | AR | <u>33</u> | Razavi, B., <i>RF Microelectronics</i> , Prentice-Hall, pp. 147-149 (1998).  |

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|------------------|------|-----------------|---------|----------------|-------|-----------|-------------|
| DPN              | AA34 | 5,724,002       | 03/1998 | Hulick         | 329   | 361       |             |
| DPN              | AB34 | 5,724,653       | 03/1998 | Baker et al.   | 455   | 296       |             |
| DPN              | AC34 | 5,729,577       | 03/1998 | Chen           | 375   | 334       |             |
| DPN              | AD34 | 5,729,829       | 03/1998 | Talwar et al.  | 455   | 63        |             |
| DPN              | AE34 | 5,732,333       | 03/1998 | Cox et al.     | 455   | 126       |             |
| DPN              | AF34 | 5,736,895       | 04/1998 | Yu et al.      | 327   | 554       |             |
| DPN              | AG34 | 5,737,035       | 04/1998 | Rotzoll        | 348   | 725       |             |
| DPN              | AH34 | 5,742,189       | 04/1998 | Yoshida et al. | 327   | 113       |             |
| DPN              | AI34 | 5,748,683       | 05/1998 | Smith et al.   | 375   | 347       |             |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ34 |                 |      |         |       |           | Yes<br>No   |
|                  | AK34 |                 |      |         |       |           | Yes<br>No   |
|                  | AL34 |                 |      |         |       |           | Yes<br>No   |
|                  | AM34 |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|     |    |    |   |
|-----|----|----|---|
| DPN | AN | 34 | Reeves, R.J.D., "The Recording and Collocation of Waveforms (Part 1)," <i>Electronic Engineering</i> , Morgan Brothers Limited, Vol. 31, No. 373, pp. 130-137 (March 1959).                             |
| DPN | AO | 34 | Reeves, R.J.D., "The Recording and Collocation of Waveforms (Part 2)," <i>Electronic Engineering</i> , Morgan Brothers Limited, Vol. 31, No. 374, pp. 204-212 (April 1959).                             |
| DPN | AP | 34 | Rein, H.M. and Zahn, M., "Subnanosecond-Pulse Generator with Variable Pulsewidth Using Avalanche Transistors," <i>Electronics Letters</i> , IEE, Vol. 11, No. 1, pp. 21-23 (January 9, 1975).           |
| DPN | AQ | 34 | Riad, S.M. and Nahman, N.S., "Modeling of the Feed-through Wideband (DC to 12.4 Ghz) Sampling-Head," <i>IEEE MTT-S International Microwave Symposium Digest</i> , IEEE, pp. 267-269 (June 27-29, 1978). |
| DPN | AR | 34 | Rizzoli, V. et al., "Computer-Aided Noise Analysis of MESFET and HEMT Mixers," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE, Vol. 37, No. 9, pp. 1401-1410 (September 1989).      |

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|------------------|------|-----------------|---------|-----------------|-------|-----------|-------------|
| DXN              | AA35 | RE 35,829       | 06/1998 | Sanderford, Jr. | 375   | 200       | ✓           |
| DXN              | AB35 | 5,760,645       | 06/1998 | Comte et al.    | 329   | 304       | ✓           |
| DXN              | AC35 | 5,764,087       | 06/1998 | Clark           | 327   | 105       | ✓           |
| DXN              | AD35 | 5,767,726       | 06/1998 | Wang            | 327   | 356       | ✓           |
| DXN              | AE35 | 5,768,118       | 06/1998 | Faulk et al.    | 363   | 72        | ✓           |
| DXN              | AF35 | 5,771,442       | 06/1998 | Wang et al.     | 455   | 93        | ✓           |
| DXN              | AG35 | 5,777,692       | 07/1998 | Ghosh           | 348   | 725       | ✓           |
| DXN              | AH35 | 5,777,771       | 07/1998 | Smith           | 359   | 180       | ✓           |
| DXN              | AI35 | 5,786,844       | 07/1998 | Rogers et al.   | 348   | 6         | ✓           |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ35 |                 |      |         |       |           | Yes<br>No   |
|                  | AK35 |                 |      |         |       |           | Yes<br>No   |
|                  | AL35 |                 |      |         |       |           | Yes<br>No   |
|                  | AM35 |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| DXN | AN | 35 | Rowe, H.E., <i>Signals and Noise in Communication Systems</i> , D. Van Nostrand Company, Inc., Princeton, New Jersey, including, for example, Chapter V, <i>Pulse Modulation Systems</i> (1965).   |
| DXN | AO | 35 | Rücker, F. and Dintelmann, F., "Effect of Antenna Size on OTS Signal Scintillations and Their Seasonal Dependence," <i>Electronics Letters</i> , IEE, Vol. 19, No. 24, pp. 1032-1034 (November 24, 1983).  |
| DXN | AP | 35 | Russell, R. and Hoare, L., "Millimeter Wave Phase Locked Oscillators," <i>Military Microwaves '78 Conference Proceedings</i> , Microwave Exhibitions and Publishers, pp. 238-242 (October 25-27, 1978).  |
| DXN | AQ | 35 | Sabel, L.P., "A DSP Implementation of a Robust Flexible Receiver/Demultiplexer for Broadcast Data Satellite Communications," <i>The Institution of Engineers Australia Communications Conference</i> , Institution of Engineers, Australia, pp. 218-223 (October 16-18, 1990). |
| DXN | AR | 35 | Salous, S., "IF digital generation of FMCW waveforms for wideband channel characterization," <i>IEE Proceedings-I</i> , IEE, Vol. 139, No. 3, pp. 281-288 (June 1992).   |

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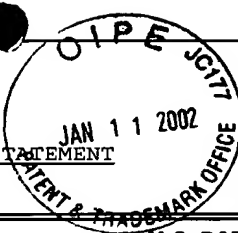
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| DPN              | AA36 | 5,793,801       | 08/1998 | Fertner          | 375   | 219       | 1           |
| DPN              | AB36 | 5,793,818       | 08/1998 | Claydon et al.   | 375   | 326       | 1           |
| DPN              | AC36 | 5,802,463       | 09/1998 | Zuckerman        | 455   | 208       | 1           |
| DPN              | AD36 | 5,809,060       | 09/1998 | Cafarella et al. | 375   | 206       | 1           |
| DPN              | AE36 | 5,818,582       | 10/1998 | Fernandez et al. | 356   | 318       | 1           |
| DPN              | AF36 | 5,825,254       | 10/1998 | Lee              | 331   | 25        | 1           |
| DPN              | AG36 | 5,834,985       | 11/1998 | Sundegård        | 332   | 100       | 1           |
| DPN              | AH36 | 5,864,754       | 01/1999 | Hotto            | 455   | 280       | 1           |
| DPN              | AI36 | 5,881,375       | 03/1999 | Bonds            | 455   | 118       | 1           |

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|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ36 |                 |      |         |       |           | Yes<br>No   |
|                  | AK36 |                 |      |         |       |           | Yes<br>No   |
|                  | AL36 |                 |      |         |       |           | Yes<br>No   |
|                  | AM36 |                 |      |         |       |           | Yes<br>No   |

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|-----|----|----|---|
| DPN | AN | 36 | "Sampling Loops Lock Sources to 23 Ghz," Microwaves & RF, Penton Publishing, p. 212 (September 1990).   |
| DPN | AO | 36 | Sasikumar, M. et al., "Active Compensation in the Switched-Capacitor Biquad," Proceedings of the IEEE, IEEE, Vol. 71, No. 8, pp. 1008-1009 (August 1983).   |
| DPN | AP | 36 | Saul, P.H., "A GaAs MESFET Sample and Hold Switch," Fifth European Solid State Circuits Conference-ESSCIRC 79, IEE, pp. 5-7 (1979).   |
| DPN | AQ | 36 | Shen, D.H. et al., "A 900-MHZ RF Front-End with Integrated Discrete-Time Filtering," IEEE Journal of Solid-State Circuits, IEEE Solid-State Circuits Council, Vol. 31, No. 12, pp. 1945-1954 (December 1996).       |
| DPN | AR | 36 | Shen, X.D. and Vilar, E., "Anomalous transhorizon propagation and meteorological processes of a multilink path," Radio Science, American Geophysical Union, Vol. 30, No. 5, pp. 1467-1479 (September-October 1995). |

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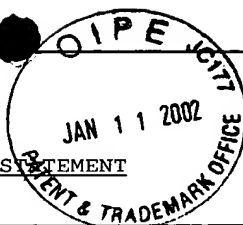
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|------------------|------|-----------------|---------|-----------------|-------|-----------|-------------|
| <i>DXN</i>       | AA37 | 5,892,380       | 04/1999 | Quist           | 327   | 172       | ✓           |
| <i>DXN</i>       | AB37 | 5,894,239       | 04/1999 | Bonaccio et al. | 327   | 176       | ✓           |
| <i>DXN</i>       | AC37 | 5,896,562       | 04/1999 | Heinonen        | 455   | 76        | ✓           |
| <i>DXN</i>       | AD37 | 5,900,747       | 05/1999 | Brauns          | 327   | 9         | ✓           |
| <i>DXN</i>       | AE37 | 5,901,054       | 05/1999 | Leu et al.      | 363   | 41        | ✓           |
| <i>DXN</i>       | AF37 | 5,901,187       | 05/1999 | linuma          | 375   | 347       | ✓           |
| <i>DXN</i>       | AG37 | 5,901,344       | 05/1999 | Opas            | 455   | 76        | ✓           |
| <i>DXN</i>       | AH37 | 5,901,347       | 05/1999 | Chambers et al. | 455   | 234.1     | ✓           |
| <i>DXN</i>       | AI37 | 5,901,348       | 05/1999 | Bang et al.     | 455   | 254       | ✓           |

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|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ37 |                 |      |         |       |           | Yes<br>No   |
|                  | AK37 |                 |      |         |       |           | Yes<br>No   |
|                  | AL37 |                 |      |         |       |           | Yes<br>No   |
|                  | AM37 |                 |      |         |       |           | Yes<br>No   |

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| <i>DXN</i> | AN | <u>37</u> | Shen, X. and Tawfik, A.N., "Dynamic Behaviour of Radio Channels Due to Trans-Horizon Propagation Mechanisms," <i>Electronics Letters</i> , IEE, Vol. 29, No. 17, pp. 1582-1583 (August 19, 1993).  |
| <i>DXN</i> | AO | <u>37</u> | Shen, X. et al., "Modeling Enhanced Spherical Diffraction and Troposcattering on a Transhorizon Path with aid of the parabolic Equation and Ray Tracing Methods," <i>IEE Colloquium on Common modeling techniques for electromagnetic wave and acoustic wave propagation</i> , IEE, pp. 4/1-4/7 (March 8, 1996). |
| <i>DXN</i> | AP | <u>37</u> | Shen, X. and Vilar, E., "Path loss statistics and mechanisms of transhorizon propagation over a sea path," <i>Electronics Letters</i> , IEE, Vol. 32, No. 3, pp. 259-261 (February 1, 1996).   |
| <i>DXN</i> | AQ | <u>37</u> | Shen, D. et al., "A 900 MHZ Integrated Discrete-Time Filtering RF Front-End," <i>IEEE International Solid State Circuits Conference</i> , IEEE, Vol. 39, pp. 54-55 and 417. (February 1996).   |
| <i>DXN</i> | AR | <u>37</u> | Spillard, C. et al., "X-Band Tropospheric Transhorizon Propagation Under Differing Meteorological Conditions," <i>Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation</i> , IEE, pp. 451-455 (April 4-7, 1989).   |

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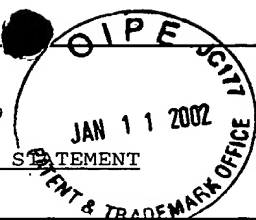
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|------------------|------|-----------------|---------|------------------|-------|-----------|-------------|
| <i>DXN</i>       | AA38 | 5,901,349       | 05/1999 | Guegnaud et al.  | 455   | 302       | ✓           |
| <i>DXN</i>       | AB38 | 5,903,178       | 05/1999 | Miyatsuji et al. | 327   | 308       | ✓           |
| <i>DXN</i>       | AC38 | 5,903,187       | 05/1999 | Claverie et al.  | 329   | 342       | ✓           |
| <i>DXN</i>       | AD38 | 5,903,196       | 05/1999 | Salvi et al.     | 331   | 16        | ✓           |
| <i>DXN</i>       | AE38 | 5,903,421       | 05/1999 | Furutani et al.  | 361   | 58        | ✓           |
| <i>DXN</i>       | AF38 | 5,903,553       | 05/1999 | Sakamoto et al.  | 370   | 338       | ✓           |
| <i>DXN</i>       | AG38 | 5,903,595       | 05/1999 | Suzuki           | 375   | 207       | ✓           |
| <i>DXN</i>       | AH38 | 5,903,609       | 05/1999 | Kool et al.      | 375   | 261       | ✓           |
| <i>DXN</i>       | AI38 | 5,903,827       | 05/1999 | Kennan et al.    | 455   | 326       | ✓           |

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|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ38 |                 |      |         |       |           | Yes<br>No   |
|                  | AK38 |                 |      |         |       |           | Yes<br>No   |
|                  | AL38 |                 |      |         |       |           | Yes<br>No   |
|                  | AM38 |                 |      |         |       |           | Yes<br>No   |

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| <i>DXN</i> | AN | <u>38</u> | Stafford, K.R. et al., "A Complete Monolithic Sample/Hold Amplifier," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-9, No. 6, pp. 381-387 (December 1974).                           |
| <i>DXN</i> | AO | <u>38</u> | Staruk, W. Jr. et al., "Pushing HF Data Rates," <i>Defense Electronics</i> , EW Communications, Vol. 17, No. 5, pp. 211, 213, 215, 217, 220 and 222 (May 1985).                                    |
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| <i>DXN</i> | AQ | <u>38</u> | Sugarman, R., "Sampling Oscilloscope for Statistically Varying Pulses," <i>The Review of Scientific Instruments</i> , American Institute of Physics, Vol. 28, No. 11, pp. 933-938 (November 1957). |
| <i>DXN</i> | AR | <u>38</u> | Sylvain, M., "Experimental probing of multipath microwave channels," <i>Radio Science</i> , American Geophysical Union, Vol. 24, No. 2, pp. 160-178 (March-April 1989).                            |

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|------------------|------|-----------------|---------|------------------|-------|-----------|-------------|
| <i>DPN</i>       | AA39 | 5,903,854       | 05/1999 | Abe et al.       | 455   | 575       | ✓           |
| <i>DPN</i>       | AB39 | 5,905,449       | 05/1999 | Tsubouchi et al. | 340   | 925.69    | ✓           |
| <i>DPN</i>       | AC39 | 5,907,149       | 05/1999 | Marckini         | 235   | 487       | ✓           |
| <i>DPN</i>       | AD39 | 5,907,197       | 05/1999 | Faulk            | 307   | 119       | ✓           |
| <i>DPN</i>       | AE39 | 5,911,116       | 06/1999 | Nossowitz        | 455   | 83        | ✓           |
| <i>DPN</i>       | AF39 | 5,911,123       | 06/1999 | Shaffer et al.   | 455   | 554       | ✓           |
| <i>DPN</i>       | AG39 | 5,914,622       | 06/1999 | Inoue            | 327   | 172       | ✓           |
| <i>DPN</i>       | AH39 | 5,920,199       | 07/1999 | Sauer            | 324   | 678       | ✓           |
| <i>DPN</i>       | AI39 | 5,943,370       | 08/1999 | Smith            | 375   | 334       | ✓           |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ39 |                 |      |         |       |           | Yes<br>No   |
|                  | AK39 |                 |      |         |       |           | Yes<br>No   |
|                  | AL39 |                 |      |         |       |           | Yes<br>No   |
|                  | AM39 |                 |      |         |       |           | Yes<br>No   |

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| <i>DPN</i> | AN | <u>39</u> | Takano, T., "NOVEL GaAs Pet Phase Detector Operable To Ka Band," <i>IEEE MT-S Digest</i> , IEEE, pp. 381-383 (1984).   |
| <i>DPN</i> | AO | <u>39</u> | Tan, M.A., "Biquadratic Transconductance Switched-Capacitor Filters," <i>IEEE Transactions on Circuits and Systems- I: Fundamental Theory and Applications</i> , IEEE Circuits and Systems Society, Vol. 40, No. 4, pp. 272-275 (April 1993).                                  |
| <i>DPN</i> | AP | <u>39</u> | Tanaka, K. et al., "Single Chip Multisystem AM Stereo Decoder IC," <i>IEEE Transactions on Consumer Electronics</i> , IEEE Consumer Electronics Society, Vol. CE-32, No. 3, pp. 482-496 (August 1986).   |
| <i>DPN</i> | AQ | <u>39</u> | Tawfik, A.N., "Amplitude, Duration and Predictability of Long Hop Trans-Horizon X-band Signals Over the Sea," <i>Electronics Letters</i> , IEE, Vol. 28, No. 6, pp. 571-572 (March 12, 1992).  |
| <i>DPN</i> | AR | <u>39</u> | Tawfik, A.N. and Vilar, E., "Correlation of Transhorizon Signal Level Strength with Localized Surface Meteorological Parameters," <i>Eighth International Conference on Antennas and Propagation</i> , Electronics Division of the IEE, pp. 335-339 (March 30- April 2, 1993). |

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|------------------|------|-----------------|---------|-----------------|-------|-----------|-------------|
| DXN              | AA40 | 4,017,798       | 04/1977 | Gordy et al.    | 325   | 42        | ✓           |
| DXN              | AB40 | 4,032,847       | 06/1977 | Unkauf          | 325   | 323       | ✓           |
| DXN              | AC40 | 4,253,067       | 02/1981 | Caples et al.   | 329   | 110       | ✓           |
| DXN              | AD40 | 4,393,395       | 07/1983 | Hacke et al.    | 358   | 23        | ✓           |
| DXN              | AE40 | 4,816,704       | 03/1989 | Fiori, Jr.      | 307   | 519       | ✓           |
| DXN              | AF40 | 4,841,265       | 06/1989 | Watanabe et al. | 333   | 194       | ✓           |
| DXN              | AG40 | 4,943,974       | 07/1990 | Motamedi        | 375   | 1         | ✓           |
| DXN              | AH40 | 5,115,409       | 05/1992 | Stepp           | 364   | 841       | ✓           |
| DXN              | AI40 | 5,353,306       | 10/1994 | Yamamoto        | 375   | 14        | ✓           |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ40 |                 |      |         |       |           | Yes<br>No   |
|                  | AK40 |                 |      |         |       |           | Yes<br>No   |
|                  | AL40 |                 |      |         |       |           | Yes<br>No   |
|                  | AM40 |                 |      |         |       |           | Yes<br>No   |

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| DXN | AN | 40 | Tawfik, A.N. and Vilar, E., "Dynamic Structure of a Transhorizon Signal at X-band Over a Sea Path," Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation, IEE, pp. 446-450 (April 4-7, 1989).   |
| DXN | AO | 40 | Tawfik, A.N. and Vilar, E., "Statistics of Duration and Intensity of Path Loss in a Microwave Transhorizon Sea-Path," Electronics Letters, IEE, Vol. 26, No. 7, pp. 474-476 (March 29, 1990).   |
| DXN | AP | 40 | Tawfik, A.N. and Vilar, E., "X-Band Transhorizon Measurements of CW Transmissions Over the Sea- Part 1: Path Loss, Duration of Events, and Their Modeling," IEEE Transactions on Antennas and Propagation, IEEE Antennas and Propagation Society, Vol. 41, No. 11, pp. 1491-1500 (November 1993). |
| DXN | AQ | 40 | Temes, G.C. and Tsividis, T., "The Special Section on Switched-Capacitor Circuits," Proceedings of the IEEE, IEEE, Vol. 71, No. 8, pp. 915-916 (August 1983).   |
| DXN | AR | 40 | Thomas, G.B., Calculus and Analytic Geometry, Third Edition, Addison-Wesley Publishing, pp. 119-133 (1960).   |

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|------------------|------|-----------------|---------|-----------------|-------|-----------|-------------|
| <i>DXN</i>       | AA41 | 5,515,014       | 05/1996 | Troutman        | 332   | 178       | ✓           |
| <i>DXN</i>       | AB41 | 5,563,550       | 10/1996 | Toth            | 329   | 347       | ✓           |
| <i>DXN</i>       | AC41 | 5,574,755       | 11/1996 | Persico         | 375   | 295       | ✓           |
| <i>DXN</i>       | AD41 | 5,604,592       | 02/1997 | Kotidis et al.  | 356   | 357       | ✓           |
| <i>DXN</i>       | AE41 | 5,638,396       | 06/1997 | Klimek          | 372   | 92        | ✓           |
| <i>DXN</i>       | AF41 | 5,675,392       | 10/1997 | Nayebi et al.   | 348   | 584       | ✓           |
| <i>DXN</i>       | AG41 | 5,694,096       | 12/1997 | Ushiroku et al. | 333   | 195       | ✓           |
| <i>DXN</i>       | AH41 | 5,757,870       | 05/1998 | Miya et al.     | 375   | 367       | ✓           |
| <i>DXN</i>       | AI41 | 5,768,323       | 06/1998 | Kroeger et al.  | 375   | 355       | ✓           |

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|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ41 |                 |      |         |       |           | Yes<br>No   |
|                  | AK41 |                 |      |         |       |           | Yes<br>No   |
|                  | AL41 |                 |      |         |       |           | Yes<br>No   |
|                  | AM41 |                 |      |         |       |           | Yes<br>No   |

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|            |    |           |  |
|------------|----|-----------|--|
| <i>DXN</i> | AN | <u>41</u> | Tomassetti, Q., "An Unusual Microwave Mixer," 16 <sup>th</sup> European Microwave Conference, Microwave Exhibitions and Publishers, pp. 754-759 (September 8-12, 1986).  |
| <i>DXN</i> | AO | <u>41</u> | Tortoli, P. et al., "Bidirectional Doppler Signal Analysis Based on a Single RF Sampling Channel," IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, Vol. 41, No. 1, pp. 1-3 (January 1984). |
| <i>DXN</i> | AP | <u>41</u> | Tsividis, Y. and Antognetti, P. (Ed.), Design of MOS VLSI Circuits for Telecommunications, Prentice-Hall, p. 304 (1985).   |
| <i>DXN</i> | AQ | <u>41</u> | Tsividis, Y., "Principles of Operation and Analysis of Switched-Capacitor Circuits," Proceedings of the IEEE, IEEE, Vol. 71, No. 8, pp. 926-940 (August 1983).   |
| <i>DXN</i> | AR | <u>41</u> | Tsurumi, H. and Maeda, T., "Design Study on a Direct Conversion Receiver Front-End for 280 MHz, 900 MHz, and 2.6 Ghz Band Radio Communication Systems," 41 <sup>st</sup> IEEE Vehicular Technology Conference, IEEE Vehicular Technology Society, pp. 457-462 (May 19-22, 1991).     |

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1744.0260001APPLICATION NO.  
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January 3, 2000GROUP  
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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE    | NAME                 | CLASS | SUB-CLASS | FILING DATE |
|------------------|------|-----------------|---------|----------------------|-------|-----------|-------------|
| DPN              | AA42 | 5,770,985       | 06/1998 | Ushiroku et al.      | 333   | 193       | /           |
| DPN              | AB42 | 5,778,022       | 07/1998 | Walley               | 375   | 206       | /           |
| DPN              | AC42 | 5,812,546       | 09/1998 | Zhou et al.          | 370   | 342       | /           |
| DPN              | AD42 | 5,818,869       | 10/1998 | Miya et al.          | 375   | 206       | /           |
| DPN              | AE42 | 5,844,449       | 12/1998 | Abeno et al.         | 332   | 105       | /           |
| DPN              | AF42 | 5,872,446       | 02/1999 | Cranford, Jr. et al. | 323   | 315       | /           |
| DPN              | AG42 | 5,909,447       | 06/1999 | Cox et al.           | 370   | 508       | /           |
| DPN              | AH42 | 5,933,467       | 08/1999 | Sehier et al.        | 375   | 350       | /           |
| DPN              | AI42 | 5,952,895       | 09/1999 | McCune, Jr. et al.   | 332   | 128       | /           |

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|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ42 |                 |      |         |       |           | Yes<br>No   |
|                  | AK42 |                 |      |         |       |           | Yes<br>No   |
|                  | AL42 |                 |      |         |       |           | Yes<br>No   |
|                  | AM42 |                 |      |         |       |           | Yes<br>No   |

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|-----|----|----|--|
| DPN | AN | 42 | Valdmanis, J.A. et al., "Picosecond and Subpicosecond Optoelectronics for Measurements of Future High Speed Electronic Devices," <i>IEDM Technical Digest</i> , IEEE, pp. 597-600 (December 5-7, 1983).  |
| DPN | AO | 42 | van de Kamp, M.M.J.L., "Asymmetric signal level distribution due to tropospheric scintillation," <i>Electronics Letters</i> , IEE, Vol. 34, No. 11, pp. 1145-1146 (May 28, 1998).  |
| DPN | AP | 42 | Vasseur, H. and Vanhoenacker, D., "Characterization of tropospheric turbulent layers from radiosonde data," <i>Electronics Letters</i> , IEE, Vol. 34, No. 4, pp. 318-319 (February 19, 1998).   |
| DPN | AQ | 42 | Verdone, R., "Outage Probability Analysis for Short-Range Communication Systems at 60 Ghz in ATT Urban Environments," <i>IEEE Transactions on Vehicular Technology</i> , IEEE Vehicular Technology Society, Vol. 46, No. 4, pp. 1027-1039 (November 1997). |
| DPN | AR | 42 | Vierira-Ribeiro, S.A., <i>Single-IF DECT Receiver Architecture using a Quadrature Sub-Sampling Band-Pass Sigma-Delta Modulator</i> , Thesis for Degree of Master's of Engineering, Carleton University, UMI Dissertation Services, pp. 1-180 (April 1995). |

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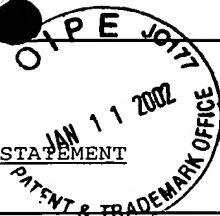
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|------------------|------|-----------------|---------|-------------------|-------|-----------|-------------|
| <i>DXN</i>       | AA43 | 5,960,033       | 09/1999 | Shibano et al.    | 375   | 207       | ✓           |
| <i>DXN</i>       | AB43 | 6,041,073       | 03/2000 | Davidovici et al. | 375   | 148       | 09/18/1998  |
| <i>DXN</i>       | AC43 | 6,054,889       | 04/2000 | Kobayashi         | 327   | 357       | 11/11/1997  |
| <i>DXN</i>       | AD43 | 6,084,922       | 07/2000 | Zhou et al.       | 375   | 316       | 04/16/1998  |
| <i>DXN</i>       | AE43 | 6,125,271       | 09/2000 | Rowland et al.    | 455   | 313       | 03/06/1998  |
| <i>DXN</i>       | AF43 | 6,147,340       | 11/2000 | Levy              | 250   | 214 R     | 09/29/1998  |
| <i>DXN</i>       | AG43 | 6,147,763       | 11/2000 | Steinlechner      | 356   | 484       | 12/27/1999  |
| <i>DXN</i>       | AH43 | 6,150,890       | 11/2000 | Damgaard et al.   | 331   | 14        | 09/30/1998  |
| <i>DXN</i>       | AI43 | 5,126,682       | 06/1992 | Weinberg et al.   | 329   | 304       | ✓           |

## FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY   | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---|-------|-----------|-------------|
|                  | AJ43 |                 |      | <b>RECEIVED</b><br><b>JAN 14 2002</b><br><b>Technology Center</b> |       |           | Yes         |
|                  | AK43 |                 |      |   |       |           | No          |
|                  | AL43 |                 |      |   |       |           | Yes         |
|                  | AM43 |                 |      |   |       |           | No          |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| <i>DXN</i> | AN | <u>43</u> | Vilar, E. et al., "A Comprehensive/Selective MM-Wave Satellite Downlink Experiment on Fade Dynamics," Tenth International Conference on Antennas and Propagation, Electronics Division of the IEE, pp. 2.98-2.101 (April 14-17, 1997).        |
| <i>DXN</i> | AO | <u>43</u> | Vilar, E. et al., "A System to Measure LOS Atmospheric Transmittance at 19 Ghz," AGARD Conference Proceedings No. 346: Characteristics of the Lower Atmosphere Influencing Radio Wave Propagation, AGARD, pp. 8-1 - 8-16 (October 4-7, 1983). |
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|------------------|------|-----------------|---------|--------------------|-------|-----------|-------------|
| DXN              | AA44 | 5,841,811       | 11/1998 | Song               | 375   | 235       | ✓           |
| DXN              | AB44 | 4,051,475       | 09/1977 | Campbell           | 343   | 180       | ✓           |
| DXN              | AC44 | 5,953,642       | 09/1999 | Feldtkeller et al. | 455   | 195.1     | ✓           |
| DXN              | AD44 | 4,653,117       | 03/1987 | Heck               | 455   | 209       | ✓           |
| DXN              | AE44 | 5,859,878       | 01/1999 | Phillips et al.    | 375   | 316       | ✓           |
| DXN              | AF44 | 5,894,496       | 04/1999 | Jones              | 455   | 126       | ✓           |
| DXN              | AG44 | 5,915,278       | 06/1999 | Mallick            | 73    | 658       | ✓           |
| DXN              | AH44 | 6,028,887       | 02/2000 | Harrison et al.    | 375   | 206       | 06/26/1997  |
| DXN              | AI44 | 6,081,691       | 06/2000 | Renard et al.      | 455   | 12.1      | 04/14/1998  |

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|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ44 |                 |      |         |       |           | Yes<br>No   |
|                  | AK44 |                 |      |         |       |           | Yes<br>No   |
|                  | AL44 |                 |      |         |       |           | Yes<br>No   |
|                  | AM44 |                 |      |         |       |           | Yes<br>No   |

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| DXN | AN | 44 | Vilar, E. et al., "An experimental mm-wave receiver system for measuring phase noise due to atmospheric turbulence," <i>Proceedings of the 25<sup>th</sup> European Microwave Conference</i> , Nexus House, pp. 114-119 (1995).                                |
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| DXN | AR | 44 | Vilar, E. et al., "CERS*. Millimetre-Wave Beacon Package and Related Payload Doppler Correction Strategies," <i>Electronics Division Colloquium on CERS- Communications Engineering Research Satellite</i> , IEE, pp. 10/1-10/10 (April 10, 1984).             |

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## U.S. PATENT DOCUMENTS

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|------------------|------|-----------------|---------|------------------|-------|-----------|-------------|
| DXN              | AA45 | 6,121,819       | 09/2000 | Traylor          | 327   | 359       | 04/06/1998  |
| DXN              | AB45 | 6,144,236       | 11/2000 | Vice et al.      | 327   | 113       | 02/01/1998  |
| DXN              | AC45 | 6,144,846       | 11/2000 | Durec            | 455   | 323       | 12/31/1997  |
| DXN              | AD45 | 6,175,728 B1    | 01/2001 | Mitama           | 455   | 323       | 03/03/1998  |
| DXN              | AE45 | 5,705,949       | 01/1998 | Alelyunas et al. | 329   | 304       | —           |
| DXN              | AF45 | 5,883,548       | 03/1999 | Assard et al.    | 329   | 306       | —           |
| DXN              | AG45 | 4,484,143       | 11/1984 | French et al.    | 329   | 50        | —           |
| DXN              | AH45 | 5,841,324       | 11/1998 | Williams         | 331   | 17        | —           |
| DXN              | AI45 | 4,855,894       | 08/1989 | Asahi et al.     | 363   | 157       | —           |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ45 |                 |      |         |       |           | Yes<br>No   |
|                  | AK45 |                 |      |         |       |           | Yes<br>No   |
|                  | AL45 |                 |      |         |       |           | Yes<br>No   |
|                  | AM45 |                 |      |         |       |           | Yes<br>No   |

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| DXN | AN | 45 | Vilar, E. and Mousley, T.J., "Comment and Reply: Probability Density Function of Amplitude Scintillations," <i>Electronics Letters</i> , IEE, Vol. 21, No. 14, pp. 620-622 (July 4, 1985).   |
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| DXN | AP | 45 | Vilar, E., "Depolarization and Field Transmittances in Indoor Communications," <i>Electronics Letters</i> , IEE, Vol. 27, No. 9, pp. 732-733 (April 25, 1991).   |
| DXN | AQ | 45 | Vilar, E. and Larsen, J.R., "Elevation Dependence of Amplitude Scintillations on Low Elevation Earth Space Paths," <i>Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation</i> , IEE, pp. 150-154 (April 4-7, 1989). |
| DXN | AR | 45 | Vilar, E. et al., "Experimental System and Measurements of Transhorizon Signal Levels at 11 Ghz," <i>18<sup>th</sup> European Microwave Conference, Microwave Exhibitions and Publishers Ltd.</i> , pp. 429-435 (September 12 - 15, 1988).               |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE    | NAME              | CLASS | SUB-CLASS | FILING DATE |
|------------------|------|-----------------|---------|-------------------|-------|-----------|-------------|
| DPN              | AA46 | 5,319,799       | 06/1994 | Morita            | 455   | 78        | /           |
| DPN              | AB46 | 5,801,654       | 09/1998 | Traylor           | 341   | 144       | /           |
| DPN              | AC46 | 5,369,404       | 11/1994 | Galton            | 341   | 143       | /           |
| DPN              | AD46 | 3,716,730       | 02/1973 | Cerny, Jr.        | 307   | 295       | /           |
| DPN              | AE46 | 4,080,573       | 03/1978 | Howell            | 325   | 439       | /           |
| DPN              | AF46 | 4,334,324       | 06/1982 | Hoover            | 455   | 333       | /           |
| DPN              | AG46 | 4,369,522       | 01/1983 | Cerny, Jr. et al. | 455   | 333       | /           |
| DPN              | AH46 | 5,465,418       | 11/1995 | Zhou et al.       | 455   | 332       | /           |
| DPN              | AI46 | 5,513,389       | 04/1996 | Reeser et al.     | 455   | 311       | /           |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ46 |                 |      |         |       |           | Yes<br>No   |
|                  | AK46 |                 |      |         |       |           | Yes<br>No   |
|                  | AL46 |                 |      |         |       |           | Yes<br>No   |
|                  | AM46 |                 |      |         |       |           | Yes<br>No   |

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|     |    |    |  |
|-----|----|----|--|
| DPN | AN | 46 | Vilar, E. and Matthews, P.A., "Importance of Amplitude Scintillations in Millimetric Radio Links," <i>Proceedings of the 4<sup>th</sup> European Microwave Conference, Microwave Exhibitions and Publishers</i> , pp. 202-206 (September 10-13, 1974).                               |
| DPN | AO | 46 | Vilar, E. and Haddon, J., "Measurement and Modeling of Scintillation Intensity to Estimate Turbulence Parameters in an Earth-Space Path," <i>IEEE Transactions on Antennas and Propagation, IEEE Antennas and Propagation Society</i> , Vol. AP-32, No. 4, pp. 340-346 (April 1984). |
| DPN | AP | 46 | Vilar, E. and Matthews, P.A., "Measurement of Phase Fluctuations on Millimetric Radiowave Propagation," <i>Electronics Letters, IEE</i> , Vol. 7, No. 18, pp. 566-568 (September 9, 1971).   |
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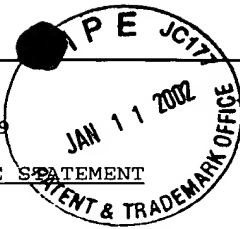
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|------------------|------|-----------------|---------|------|-------|-----------|-------------|
|                  | AA47 | 5,959,850       | 09/1999 | Lim  | 363   | 17        | ✓           |
|                  | AB47 |                 |         |      |       |           | ✓           |
|                  | AC47 |                 |         |      |       |           | ✓           |
|                  | AD47 |                 |         |      |       |           | ✓           |
|                  | AE47 |                 |         |      |       |           | ✓           |
|                  | AF47 |                 |         |      |       |           | ✓           |
|                  | AG47 |                 |         |      |       |           | ✓           |
|                  | AH47 |                 |         |      |       |           | ✓           |
|                  | AI47 |                 |         |      |       |           | ✓           |

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|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ47 |                 |      |         |       |           | Yes<br>No   |
|                  | AK47 |                 |      |         |       |           | Yes<br>No   |
|                  | AL47 |                 |      |         |       |           | Yes<br>No   |
|                  | AM47 |                 |      |         |       |           | Yes<br>No   |

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| DPN | AO | 47 | Vilar, E. et al., "Scattering and Extinction: Dependence Upon Raindrop Size Distribution in Temperate (Barcelona) and Tropical (Belem) Regions," <i>Tenth International Conference on Antennas and Propagation</i> , Electronics Division of the IEE, pp. 2.230-2.233 (April 14-17, 1997). |
| DPN | AP | 47 | Vilar, E. and Haddon, J., "Scintillation Modeling and Measurement - A Tool for Remote-Sensing Slant Paths," <i>AGARD Conference Proceedings No. 332: Propagation Aspects of Frequency Sharing, Interference And System Diversity</i> , AGARD, pp. 27-1 - 27-13 (October 18-22, 1982).      |
| DPN | AQ | 47 | Vilar, E., "Some Limitations on Digital Transmission Through Turbulent Atmosphere," <i>International Conference on Satellite Communication Systems Technology</i> , Electronics Division of the IEE, pp. 169-187 (April 7-10, 1975).   |
| DPN | AR | 47 | Vilar, E. and Matthews, P.A., "Summary of Scintillation Observations in a 36 Ghz Link Across London," <i>International Conference on Antennas and Propagation Part 2: Propagation</i> , IEE, pp. 36-40 (November 28-30, 1978).   |

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1/5/2003

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|------------------|------|-----------------|------|------|-------|-----------|-------------|
|                  | AA48 |                 |      |      |       |           | /           |
|                  | AB48 |                 |      |      |       |           | /           |
|                  | AC48 |                 |      |      |       |           | /           |
|                  | AD48 |                 |      |      |       |           | /           |
|                  | AE48 |                 |      |      |       |           | /           |
|                  | AF48 |                 |      |      |       |           | /           |
|                  | AG48 |                 |      |      |       |           | /           |
|                  | AH48 |                 |      |      |       |           | /           |
|                  | AI48 |                 |      |      |       |           | /           |

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|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ48 |                 |      |         |       |           | Yes<br>No   |
|                  | AK48 |                 |      |         |       |           | Yes<br>No   |
|                  | AL48 |                 |      |         |       |           | Yes<br>No   |
|                  | AM48 |                 |      |         |       |           | Yes<br>No   |

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Dmg. S. Nguyen

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
1744.0260001APPLICATION NO.  
09/476,093APPLICANT  
Sorrells et al.FILING DATE  
January 3, 2000GROUP  
2631

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|---------------------|------|--------------------|------|------|-------|---------------|-------------|
|                     | AA49 |                    |      |      | ✓     |               |             |
|                     | AB49 |                    |      |      |       |               |             |
|                     | AC49 |                    |      |      |       |               |             |
|                     | AD49 |                    |      |      |       |               |             |
|                     | AE49 |                    |      |      |       |               |             |
|                     | AF49 |                    |      |      |       |               |             |
|                     | AG49 |                    |      |      |       |               |             |
|                     | AH49 |                    |      |      |       |               |             |
|                     | AI49 |                    |      |      |       |               |             |

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|---------------------|------|-----------------|------|---------|-------|---------------|-------------|
|                     | AJ49 |                 |      |         |       |               | Yes<br>No   |
|                     | AK49 |                 |      |         |       |               | Yes<br>No   |
|                     | AL49 |                 |      |         |       |               | Yes<br>No   |
|                     | AM49 |                 |      |         |       |               | Yes<br>No   |

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|------------|----|-----------|--|
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|                  | AA50 |                 |      |      |       |           |             |
|                  | AB50 |                 |      |      |       |           |             |
|                  | AC50 |                 |      |      |       |           |             |
|                  | AD50 |                 |      |      |       |           |             |
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|                  | AF50 |                 |      |      |       |           |             |
|                  | AG50 |                 |      |      |       |           |             |
|                  | AH50 |                 |      |      |       |           |             |
|                  | AI50 |                 |      |      |       |           |             |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ50 |                 |      |         |       |           | Yes<br>No   |
|                  | AK50 |                 |      |         |       |           | Yes<br>No   |
|                  | AL50 |                 |      |         |       |           | Yes<br>No   |
|                  | AM50 |                 |      |         |       |           | Yes<br>No   |

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|------------|----|-----------|---|
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| <i>DXN</i> | AR | <u>50</u> | Translation of DE Patent No. 35 41 031 A1, 22 pages.  |

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|                  | AA51 |                 |      |      |       |           |             |
|                  | AB51 |                 |      |      |       |           |             |
|                  | AC51 |                 |      |      |       |           |             |
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|                  | AH51 |                 |      |      |       |           |             |
|                  | AI51 |                 |      |      |       |           |             |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ51 |                 |      |         |       |           | Yes<br>No   |
|                  | AK51 |                 |      |         |       |           | Yes<br>No   |
|                  | AL51 |                 |      |         |       |           | Yes<br>No   |
|                  | AM51 |                 |      |         |       |           | Yes<br>No   |

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|                  | AB52 |                 |      |      |       |           |             |
|                  | AC52 |                 |      |      |       |           |             |
|                  | AD52 |                 |      |      |       |           |             |
|                  | AE52 |                 |      |      |       |           |             |
|                  | AF52 |                 |      |      |       |           |             |
|                  | AG52 |                 |      |      |       |           |             |
|                  | AH52 |                 |      |      |       |           |             |
|                  | AI52 |                 |      |      |       |           |             |

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|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ52 |                 |      |         |       |           | Yes<br>No   |
|                  | AK52 |                 |      |         |       |           | Yes<br>No   |
|                  | AL52 |                 |      |         |       |           | Yes<br>No   |
|                  | AM52 |                 |      |         |       |           | Yes<br>No   |

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EXAMINER

Dang P. Nguyen

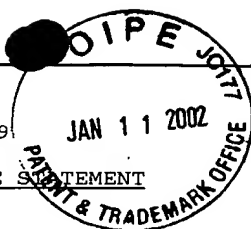
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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
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09/476,093APPLICANT  
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|                  | AB53 |                 |      |      |       |           |             |
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|                  | AH53 |                 |      |      |       |           |             |
|                  | AI53 |                 |      |      |       |           |             |

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| EXAMINER INITIAL |      | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|------|-----------------|------|---------|-------|-----------|-------------|
|                  | AJ53 |                 |      |         |       |           | Yes<br>No   |
|                  | AK53 |                 |      |         |       |           | Yes<br>No   |
|                  | AL53 |                 |      |         |       |           | Yes<br>No   |
|                  | AM53 |                 |      |         |       |           | Yes<br>No   |

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|           | AP | <u>53</u> |   |
|           | AQ | <u>53</u> |   |
|           | AR | <u>53</u> |   |

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|---|----------------------------------|-------------------------------|
| SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT | ATTY. DOCKET NO.<br>1744.0260001 | APPLICATION NO.<br>09/476,093 |
|   | APPLICANT<br>Sorrells et al.     |                               |
|   | FILING DATE<br>January 3, 2000   | GROUP<br>2631                 |

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| <del>AXN</del> C.C.   | AC47 | 5,945,660       | 08/1999 | Nakasuji et al. | 235   | 462.46    | /           |
| <del>AXN</del> C.C.   | AD47 | 6,091,939       | 07/2000 | Banh            | 455   | 102       | /           |
| <del>AXN</del> C.C.   | AE47 | 6,091,941       | 07/2000 | Moriyama et al. | 455   | 126       | /           |
| <del>AXN</del> C.C.   | AF47 | 6,098,886       | 08/2000 | Swift et al.    | 235   | 472.01    | /           |
| <del>AXN</del> C.C.   | AG47 | 6,215,475 B1    | 04/2001 | Meyerson et al. | 345   | 173       | /           |
| <del>AXN</del> C.C.   | AH47 | 6,049,706       | 04/2000 | Cook et al.     | 455   | 313       | /           |
| <del>AXN</del> C.C.   | AI47 | 6,061,551       | 05/2000 | Sorrells et al. | 455   | 118       | /           |

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|--------------------------|------|-----------------|---------|---------|-------|-----------|-------------|
| EXAMINER INITIAL         |      | DOCUMENT NUMBER | DATE    | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
| <del>AXN</del> C.C.      | AL15 | JP 47-2314      | 02/1972 | JP      | —     | —         | No          |
| <del>AXN</del> C.C.      | AM15 | JP 58-7903      | 01/1983 | JP      | H03C  | 1/02      | No          |

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| EXAMINER<br><i>Samy P. Nguyen</i> C.CHOW | DATE CONSIDERED<br>8-4-03<br>8/5/2003 |
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## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
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| <i>DXN</i>       | AB48 | 6,091,940       | 07/2000 | Sorrells et al. | 455   | 118       | ✓           |
| <i>DXN</i>       | AC48 | 6,266,518 B1    | 07/2001 | Sorrells et al. | 455   | 118       | ✓           |
| <i>DXN</i>       | AD48 | 6,353,735 B1    | 03/2002 | Sorrells et al. | 455   | 118       | ✓           |
| <i>DXN</i>       | AE48 | 6,370,371 B1    | 04/2002 | Sorrells et al. | 455   | 323       | ✓           |
| <i>DXN</i>       | AF48 | 5,628,055       | 05/1997 | Stein           | 455   | 89        | ✓           |
| <i>DXN</i>       | AG48 | 5,678,220       | 10/1997 | Fournier        | 455   | 302       | ✓           |
| <i>DXN</i>       | AH48 | 5,926,065       | 07/1999 | Wakai et al.    | 329   | 304       | ✓           |

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|------------------|------|-----------------|---------|---------|-------|-----------|-------------|
| <i>DXN</i>       | AJ16 | JP 58-133004    | 08/1983 | JP      | H03D  | 1/00      | No          |
| <i>DXN</i>       | AK16 | JP 60-58705     | 04/1985 | JP      | H03D  | 7/00      | No          |
| <i>DXN</i>       | AL16 | JP 4-123614     | 04/1992 | JP      | H03K  | 19/0175   | No          |
| <i>DXN</i>       | AM16 | JP 4-127601     | 04/1992 | JP      | H03D  | 7/00      | No          |

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*Shing D. Nguyen C. Chow*

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|---------------------|------|-----------------|---------|---------|-------|---------------|-------------|
| <i>DXN</i>          | AJ17 | JP 5-175730     | 07/1993 | JP      | H03D  | 1/00          | No          |
| <i>DXN</i>          | AK17 | JP 5-175734     | 07/1993 | JP      | H03D  | 3/00          | No          |
| <i>DXN</i>          | AL17 | JP 7-154344     | 06/1995 | JP      | H04B  | 14/06         | No          |
| <i>DXN</i>          | AM17 | JP 7-307620     | 11/1995 | JP      | H03D  | 1/18          | No          |

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|-----|----|-----------|---|
| JPN | AN | <u>55</u> | English-language Abstract of Japanese Patent Publication No. 07-154344, from <a href="http://www1.ipdl.jpo.go.jp">http://www1.ipdl.jpo.go.jp</a> , 2 Pages (June 16, 1995 - Date of publication of application).    |
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ATTY. DOCKET NO.  
1744.0260001APPLICATION NO.  
09/476,093APPLICANT  
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*C. Chow* *Sing D. Nguyen*

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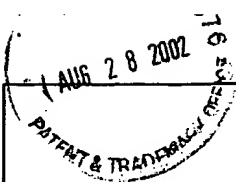
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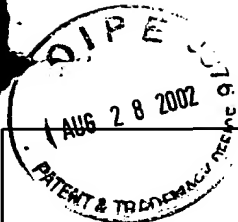
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